

LEHIGH ALUMNI BULLETIN

JULY
1928

Galvanum

FOR GALVANIZED IRON

PAINT

TRADE MARK

Prolongs the Life of Galvanized Iron Buildings Reduces Painting Costs to a Minimum !

Industrial Engineers will find Galvanum Paint the greatest investment they can make to preserve the life of their galvanized iron buildings. For over 40 years Galvanum has been specified by leading consulting engineers.

Galvanum is the one outstanding paint that will stick to galvanized iron—no acid wash—no weathering—no special treatment necessary. Applied directly to the metal without any primers. Will last for years, and will not crack, peel or flake.

Galvanum is made in a variety of colors, is economical to use and inexpensive.

Write for descriptive literature and prices. Our technical department is at your service.

GOHEEN CORPORATION

OF NEW JERSEY

PAINT ENGINEERS

NEWARK, N. J.

Makers of Technical Paints, Damp-proofings and Waterproofings.

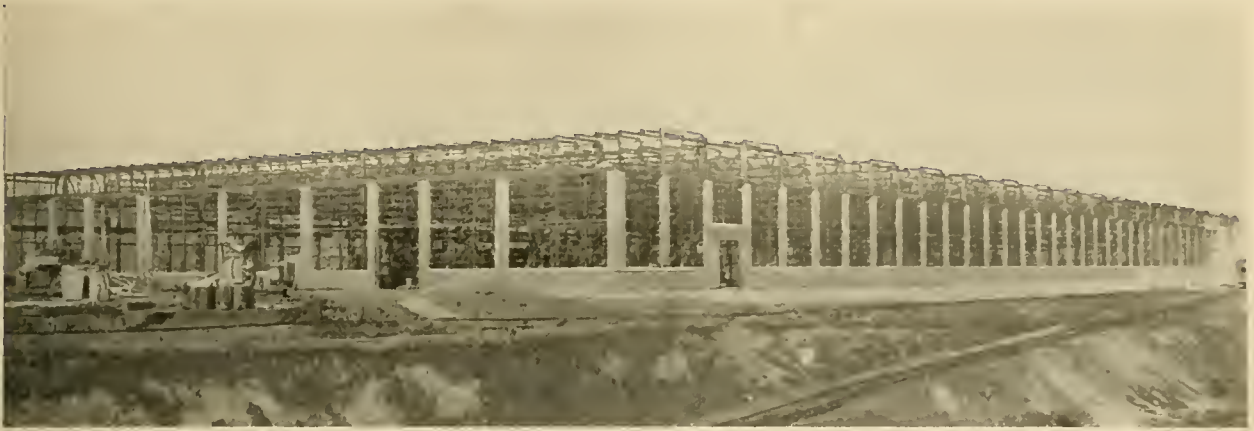


Specify

GOHEEN

PAINTS FOR PLANT UPKEEP

Put US on Your Inquiry List for Industrial Paints of Every Description



TEXTILE MACHINE WORKS, READING, PA

McClintic-Marshall Company

Manufacturers and Erectors of

STEEL BRIDGES, BUILDINGS AND OTHER STEEL STRUCTURES

GENERAL OFFICE

OLIVER BUILDING, PITTSBURGH, PA.

BRANCH OFFICES

NEW YORK
PHILADELPHIA
CHICAGO

BALTIMORE
BOSTON
CLEVELAND

CINCINNATI
DETROIT
LOS ANGELES

CHARLOTTE, N.C.
SAN FRANCISCO

PLANTS

PITTSBURGH
LOS ANGELES

POTTSTOWN, PA.
SAN FRANCISCO

CHICAGO

C. D. MARSHALL, '88, President

H. H. McCLINTIC, '88, Vice President

R. W. KNIGHT, '94
G. R. ENSCOE, '96
C. M. DENISE, '98
T. L. CANNON, '03
E. F. GOHL, '07

F. U. KENNEDY, '07
R. MACMINN, '07
L. A. WALKER, '08
G. A. CAFFALL, '10
LESLIE ALLEN, '16
W. A. CANNON, '16

J. N. MARSHALL, '20
J. H. WAGNER, '20
G. L. GAISER, '22
J. F. MOYER, '23
I. F. KURTZ, '23

THE DRAVO CONTRACTING COMPANY

PITTSBURGH

DIFFICULT FOUNDATIONS, RIVER and HARBOR IMPROVE-
MENT, BRIDGE PIERS and DAMS, MINING PLANT
CONSTRUCTION, SHAFTS, SLOPES and TUNNELS

DRAVO-DOYLE COMPANY

CLEVELAND

PITTSBURGH

PHILADELPHIA

STEAM, ELECTRIC and HYDRAULIC EQUIPMENT, WATER
WORKS INSTALLATIONS, COMPLETE POWER PLANTS

ASSOCIATED WITH THE COMPANIES

F. R. DRAVO, '87
R. M. DRAVO, '89
S. P. FELIX, '03
J. D. BERG, '05
E. T. GOTT, '06
L. C. ZOLLINGER, '09

V. B. EDWARDS, '12
GEO. F. WOLFE, '14
W. P. BERG, '15
E. W. ESTES, '20
F. J. LLOYD, JR., '23
B. E. RHOADS, JR., '23

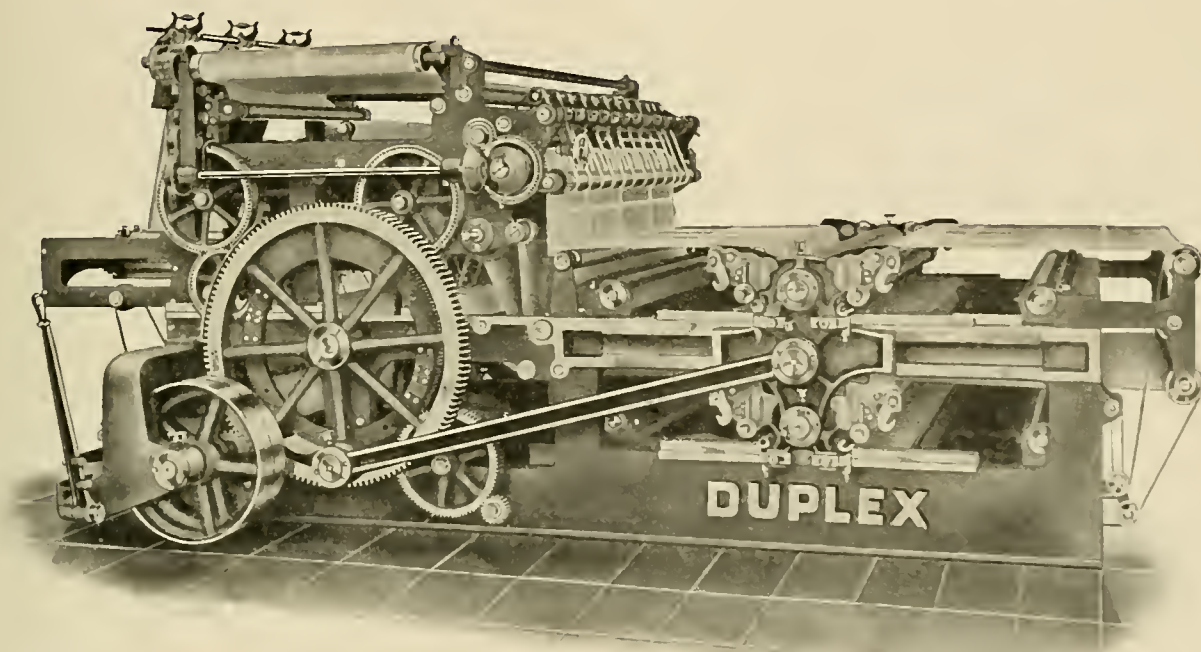
J. A. BISSINGER, JR., '26
L. M. FRAIVILLIG, '26
MORRIS G. PEASE, '26
H. CHARLES HESS, '26
W. W. ARMSTRONG, '27
PAUL G. STROHL, '27

SCHOOLS OF JOURNALISM

HAVE ESTABLISHED MODEL NEWSPAPER PLANTS FOR THE INSTRUCTION OF
FUTURE JOURNALISTS AND HAVE ADOPTED THE

DUPLIX PRESS

AS STANDARD PRESS ROOM EQUIPMENT



Prominent Universities and Schools of Journalism Where College Dailies Are Printed on Duplex Presses:

University of Oklahoma—Oklahoma Daily
University of Kansas—Daily Kansan
University of Missouri—Missourian
University of Iowa—Daily Iowan
University of California—Californian
Lafayette College—Lafayette
Iowa State College—Iowa State Student
University of Idaho—Argonaut

University of Michigan—Michigan Daily
University of Texas—Daily Texan
University of Illinois—Daily Illini
Penna. State College—Penn State Collegian
Ohio State University—Ohio State Lantern
University of Washington—Daily
Cornell University—Daily Sun
University of Wisconsin—Cardinal

The Duplex Printing Press Company

Times Bldg.
New York

BATTLE CREEK, MICHIGAN

Marcus M. Farley, '06
Vice-President, Secretary

OFFICIAL DIRECTORY ALUMNI ASSOCIATION LEHIGH UNIVERSITY, INC.

President: Thomas M. Girdler, '01, Jones and Laughlin Steel Corp., Pittsburgh, Pa.
 Vice-President: L. S. Horner, '98, Niles-Bement-Pond Co., 111 Broadway, New York, N. Y.
 Vice-President: N. E. Funk, '05, Philadelphia Electric Co., 1000 Chestnut St., Philadelphia, Pa.
 Treasurer: Robert S. Taylor, '95, First National Bank, Bethlehem, Pa.
 Secretary: A. E. Buchanan, Jr., '18, Alumni Memorial Building, Bethlehem, Pa.
 Archivist: J. L. Beaver, '04, Lehigh University, Bethlehem, Pa.

HONORARY ALUMNI TRUSTEES

A. C. Dodson, care of Weston Dodson Co., Bethlehem, Pa.
 H. D. Wilson, 1409 Union Bank Bldg., Pittsburgh, Pa.
 H. H. McClintic, McClintic-Marshall Co., Oliver Bldg., Pittsburgh, Pa.
 Clarence W. Hudson, 15 Park Row, New York City.
 Frank R. Dravo, Dravo Contracting Co., Dravo Bldg., Pittsburgh, Pa.
 Cadwallader Evans, Hudson Coal Co., 434 Wyoming Ave., Scranton, Pa.

ALUMNI MEMBERS ATHLETIC COMMITTEE

Walter R. Okeson, '95 (To June, 1928).
 M. L. Jacobs, '10 (To June, 1929).
 D. M. Petty, '09 (To June, 1930).
 J. A. Frick, '03 (To June, 1931).

JOINT ENDOWMENT COMMITTEE

E. G. Grace, Honorary Chairman.
 W. C. Dickerman, Executive Chairman.
 A. Weymouth, Vice-Chairman.
 H. S. Drinker.
 C. D. Marshall.
 F. R. Dravo.
 C. W. Hudson.
 B. Baker, Jr.
 H. D. Wilson.
 W. R. Okeson, Campaign Manager.

LEHIGH ALUMNI CLUBS

Chicago Lehigh Club

Pres., *H. W. Kern, '92
 Sec., J. T. Aubrey, '09, 410 N. Michigan Ave., Chicago, Ill.

Detroit Lehigh Club

Pres., A. C. Hutchinson, '02
 V.-P., Chas. Heilman, '10.
 Sec., H. E. Johnson, '13, 14414 Dexter Blvd., Detroit, Mich.

Lehigh Club of Central Pa.

Pres., Milton Roth, '24
 V.-P., J. H. Myers, '96
 Sec. and Treas., C. B. Mitchell, '24, 710 A. Green St., Harrisburg, Pa.

Lehigh Club of China

Pres., Yen Te Ching, '01, Peking, China

Lehigh Club of Cuba

Pres., Conrad E. Martinez, '01, Principe 27, Havana, Cuba

Lehigh Club of New England

Pres., L. A. Olney, '96
 Sec., A. D. Bach, '17, 39 Bemis St., Newtonville, Mass.

Lehigh Club of Northern N. Y.

Pres., J. D. Alrich, '22
 Sec., F. C. Brockman, '15, 81 Robinson St., Schenectady, N. Y.

Lehigh Club of Northern Ohio

Pres., Martin Schmid, '07
 Sec., R. W. Kempsmith, '11, 2008 Union Trust Bldg., Cleveland, Ohio

Lehigh Club of Southern New England

Pres., C. H. Veeder, '86
 Sec., J. W. Thurston, '96, 168 N. Quaker Lane, Hartford, Conn.

Lehigh Club of Western New York

Pres., C. Denlinger, '06
 1st V.-P., J. P. Kelly, '02
 2nd V.-P., L. Tremaine, '24
 Sec. and Treas., J. F. Rogers, '24, 16 Clarandon Place, Buffalo, N. Y.

Lehigh Home Club

Pres., V. J. Pazzetti, '15
 V.-P., A. J. Standing, '10
 Sec.-Treas., J. Cullen Ganey, '20, E. P. Wilbur Trust Co. Bldg., Bethlehem, Pa.

Lehigh Club of N. Y., Inc.

Pres., C. H. Boynton, '89
 Sec.-Treas., M. Mizel, '18, 2768 Ocean Ave., Brooklyn

Northeast Pa. Lehigh Club

Pres., H. D. Baldwin, '14
 1st V.-P., J. A. Hart, '12
 2nd V.-P., G. R. Wood, '11
 Sec. and Treas., Edgar Schweitzer, '07, Forty, Fort, Pa.
 Asst. Secretaries, E. J. Garra, '25, and H. D. Ginder, '19.

Northern California Lehigh Club

Pres., Dr. Richard H. Tucker, '79
 Sec.-Treas., A. H. Hitchner, '23, Oliver Continuous Filter Co., Oakland, Cal.

Lehigh University Club of Philadelphia

Pres., Walton Forstall, '91
 1st V.-P., N. E. Funk, '05
 2nd V.-P., C. F. Lincoln, '11
 Sec., Moriz Bernstein, '96, 2130 Estaugh St., Philadelphia, Pa.
 Treas., R. L. Greer, '16

Pittsburgh Lehigh Club

Pres., Frank B. Bell, '98
 V.-P., T. M. Girdler, '01
 Sec., Edward Stotz, Jr., '20, 801 Bessemer Bldg., Sixth St., Pittsburgh, Pa.

Southern Anthracite Lehigh Club

Pres., J. H. Pierce, '10
 Sec., Ray B. Serfass, '09, 308 Schuylkill Trust Bldg., Pottsville, Pa.

Washington Lehigh Club

Pres., R. B. Swope, '10
 Sec., Geo. S. Koch, '23, 13 W. Maple St., Alexandria, Va.

Maryland Lehigh Club

Pres., W. Frank Roberts, '02
 Sec., A. J. Kutzleb, '13, Manhattan Rubber Mfg. Co., 208 W. Pratt St., Baltimore, Md.

Lehigh University Club of South Eastern Pennsylvania

Pres., E. A. Quier, '91
 Sec.-Treas., R. W. Kinsey, 723 N. 5th St., Reading, Pa.

Lehigh University Club of Trenton

Pres., J. H. Pennington, '97
 Sec., E. L. Robinson, '24, 2 S. Clinton Ave., Trenton, N. J.

Lehigh University Club of York, Pa.

Pres., J. L. Rosenmiller, '19
 V.-P., William H. Myers, '03
 Sec. and Treas., Samuel H. Shipley, '22, 639 Linden Ave., York, Pa.

Lehigh Club of Northern New Jersey

Pres., David Green, '22
 Sec. and Treas., Fred H. Samuels, '25, 786 Broad St., Newark, N. J.

ALUMNI FUND AGENTS

Classes

Year	Agent
1873.....	W. M. Scudder
1874.....	C. W. Haines
1875.....	J. H. Evans
1876.....	W. L. Raeder
1877.....	H. S. Jacoby
1878.....	H. F. J. Porter
1879.....	F. W. Sargent
1880.....	J. T. Reese
1881.....	T. M. Eynon
1882.....	E. H. Lawall
1883.....	A. E. Forstall
1884.....	A. Parker-Smith
1885.....	H. O. Jones
1886.....	C. H. Veeder
1887.....	C. A. Buck
1888.....	H. H. McClintic
1889.....	C. W. Hudson
1890.....	H. A. Foering
1891.....	W. Forstall
1892.....	H. H. Davis
1893.....	J. Taylor
1894.....	A. Weymouth
1895.....	R. S. Taylor
1896.....	J. deB. Amador
1897.....	J. H. Pennington
1898.....	L. S. Horner
1899.....	A. W. Klein
1900.....	E. A. Yellis
1901.....	E. T. Murphy
1902.....	A. A. Diefenderfer
1903.....	S. P. Felix
1904.....	F. P. Sinn
1905.....	W. H. Lesser
1906.....	S. J. Cort
1907.....	Raymond Walters
1908.....	J. M. Fair
1909.....	S. R. Schealer
1910.....	M. L. Jacobs
1911.....	A. P. Spooner
1912.....	Morton Sultzer
1913.....	R. T. Dynan
1914.....	W. A. Schrempel
1915.....	C. E. Siebecker
1916.....	E. J. Clement
1917.....	A. Bach
1918.....	A. E. Buchanan, Jr.
1919.....	H. D. Ginder
1920.....	Mercer Tate, Jr.
1921.....	L. Bevan
1922.....	S. Cottrell
1923.....	A. C. Cusick
1924.....	J. F. Rogers
1925.....	A. L. Bayles
1926.....	Davitt S. Bell

STANDARD FORM FOR A BEQUEST

"I give and bequeath the sum of.....dollars to Lehigh University for its general endowment fund, the income only to be used for the benefit of the University, and the principal to be invested according to the discretion and best judgment of the Board of Trustees of the University."

LEHIGH ALUMNI BULLETIN

Published Monthly, October to July, inclusive, by the Alumni Association, Alumni Memorial Building, Bethlehem, Penna.

Printed by Times Publishing Co., Bethlehem, Pa.

Subscription Price, \$2.00 a Year

Member of Intercollegiate Alumni Extension Service

Entered as second-class matter at Bethlehem, Penna., Post-office

A. E. BUCHANAN, JR., *Editor*

JOHN W. MAXWELL, *Asst. Editor*

VOLUME 15

JULY, 1928

NUMBER 10

To the Alumni of Lehigh:—

I have no words to tell you of my appreciation of that wonderful funeral you gave me. It is almost worth dying to hear such nice things said about you and to have such evidences of affection showered upon you. I say affection advisedly as I am not so foolish as to think that I deserved all you said about me or did for me. But if people like you they magnify your achievements. Frankly, I am a lot prouder because I know the appreciation was engendered by the friendly spirit of you fellows towards me than I would be if it was the result of real accomplishments on my part.

Nobody need send any flowers to my funeral. I have had mine while I lived and take it from me it was an experience worth living for and that sometimes is harder than dying. At least so some people say. For myself I prefer the living.

The best I can say is a simple "Thank you." I am sure you know that it comes from my heart.

Sincerely your friend,

Walter R. O'Kerson

P.S.—"The rumors of my death are greatly exaggerated." I am not dead. My office is still in the Memorial Building. My principal business is as always, digging up money for Lehigh. If you hear of any that is not nailed down — wire me!

Walter R. Okeson, '95—In Appreciation

ON ALUMNI DAY, 1928, Walter R. Okeson, '95, retired as Executive Secretary of the Alumni Association of Lehigh University after serving in that capacity for eleven years, during which time his efforts for the upbuilding of Lehigh were uniformly successful and the results monumental and inspiring. The Board of Directors of the Alumni Association authorized R. S. Taylor, '95, a classmate and life-long friend of Okey's, to phrase its sentiments of appreciation, and the following minute, suitably engrossed and bound, was presented to Okeson, together with an honorarium of \$5000 at the Annual Meeting of the Alumni Association on June 9.

THE Board of Directors of the Alumni Association of Lehigh University has delegated me to speak for it of our Alumni Secretary, Walter R. Okeson, '95.

Twelve years ago, upon the earnest appeal of intimate friends, Okeson sacrificed pecuniary reward and a future of enticing possibilities and accepted the position of Secretary of the Alumni Association.

The Association at that time was to a relatively large extent an indifferent and a more or less detached group of Alumni numbering 600, with annual dues struggling between \$2,000 and \$3,000, with a threatening deficit.

If there ever had been a living example of the proposition that a man should honor the position, and not that the position should honor the man, it was when our fellow alumnus became our Secretary.

WE ALL knew he would be a good and efficient secretary, as we understood that position. He unquestionably demonstrated this when he increased the number of members of the Association to 3000, and the annual income to \$20,000. He further demonstrated it when he conceived the idea of a useful and lasting memorial to Lehigh men who served and to those who gave their lives in the World War, and raised half a million dollars to build the beautiful structure in which we are meeting today. He demonstrated this again when he inspired and launched the Endowment Campaign that raised for Lehigh over two million dollars; and again when, as a result of his tactful presentation, James Ward Packard, '84, gave to Lehigh \$1,200,000 to build a mechanical and electrical research laboratory that will be the finest in America, and when Packard—his love for Lehigh and his sense of obligation to her stimulated by Okeson's compelling personality and enthusiasm—was inspired to make Lehigh a beneficiary of substantially one-fourth of the income and ultimately of one-third of the residue of his large estate.



BUT GREAT as these achievements are, they are exceeded by the greater service Okeson rendered to Lehigh and to her Alumni. He brought to his position a clear and true conception of the value and function of the integral factors that compose his Alma Mater. In his view of Lehigh, she consisted not only of buildings, trustees, faculty and students; to him, essential and important factors were her Alumni, and their attitude to

their Alma Mater and to the world in which they worked. He saw clearly that teaching should not end on the Campus, but that it should be continued by an ever increasing number of Alumni teaching by precept and example high standards of technique and character in all the relations of life in which they play a part throughout the whole of America. To him the spirit of Lehigh was real, even though intangible.

With his love and devotion for Lehigh, his gift of inspiring others, his radiating personality and his genius for making friends, he reorganized the inert Alumni body and gave it life, spirit and purpose. He encouraged the

Alumni to feel that it was an honor to be sons of Lehigh and a privilege to express themselves and to function as an essential part of her; and he made it easy for the Administration of Lehigh to demand the loyalty and to win the cooperation and affection of the Alumni.

He weaved the various elements of our Alma Mater as a work upon a loom, and from the apparent opposition of the parts evoked the beautiful cooperation of the whole. For his service to Lehigh, Okeson ranks with her benefactors, beginning with Asa Packer and ending with James Ward Packard.

WHEN OKESON presented to the Board of Directors of the Alumni Association his resignation as Secretary, the Board thought it could not be accepted. However, Okeson told us that he did not intend to sever his connection with Lehigh;

he is and will continue to be Secretary and Treasurer of Lehigh University.

With his services to Lehigh as Secretary of the Alumni Association in mind, the Board was confident that Okeson would put his inimitable initiative and creative activities to work in a larger field for Lehigh. They saw that it would give him a greater opportunity "to preach the Gospel of Lehigh to all the people."

The Board therefore accepted the resignation of Walter R. Okeson as Secretary of the Alumni Association of Lehigh, expressed to him its appreciation, gratitude and personal affection, and wished him "many happy returns" as the result of his future efforts in his new work.

MOTION BY AUBREY WEYMOUTH, '94

Mr. President and fellow alumni:—

I feel sure that the inspiring remarks of Bob Taylor are echoed in the hearts of every one here today.

I think it was Ralph Waldo Emerson who once said that "an institution is the lengthened shadow of one man."

With this thought in my mind I love to think that the spirit of this great university is exemplified in the life and character of Walter R. Okeson.

And if it were my privilege to give to Lehigh a great asset it would be that every graduate as he departs from these devoted walls might take with him the same fine ideals of manhood that have been manifested by Okeson in his love, loyalty, devotion and unselfish work for his alma mater.

Mr. President:—

I move that the action of the Board be approved, and that the sentiments of the Board respecting Walter R. Okeson, Secretary of the Alumni Association, as expressed by Taylor, '95, be adopted as the sentiment of the Alumni of Lehigh passed unanimously at the annual meeting of the Alumni Association, June 9, 1928, and that an engrossed copy of the same be bound and presented to Okeson.

MOTION SECONDED BY EUGENE GRACE, '99

Eugene G. Grace, '99, seconded Weymouth's motion with the following remarks:

I would not second this motion if I knew Lehigh was going to lose Okeson, but as he will continue to hold the office of Treasurer and that of Secretary of the Board of Trustees as well as to continue his efforts in behalf of the Alumni Fund, Lehigh will still benefit from his services.

With this, Grace presented Okey with a leather bound booklet containing Taylor's remarks, adding that he noticed a small token of appreciation of the alumni, a check for \$5000, inserted among the pages of the booklet. Before handing it to Okey he informed the latter that he was at liberty to use it in any manner he chose except to pay the bill for a wrist watch which the Class of '95 had presented on the previous evening.

The booklet containing the sentiments of the alumni expressed by Taylor and Weymouth was handsomely bound in brown Morocco leather embossed with gold lettering. The pages were hand illuminated and the text exquisitely engrossed, all of which combined to make this a most beautiful and worthy memoir.



The head of the academic procession from the chapel to the flagpole at the conclusion of the commencement exercises.

Leading the Procession are President Richards and Dr. Roscoe Pound, followed in order by the Very Rev.

D. Wilmot Gateson, and Rev. Mr. Trafford; E. G. Grace, '99, and W. R. Okeson, '95;

H. D. Wilson, '01, and C. Evans, '01; and S. D. Warriner, '90, trustees.

THE SOCIAL ORDER AND THE ORDER OF NATURE

Address Delivered by Dean Roscoe Pound, of Harvard Law School, at the Sixtieth Annual Commencement Exercises at Lehigh, June 12, 1928

WE ENDEAVOR to explain things by comparing them with other things. The beginnings of reasoning are in noting differences and likenesses and in drawing inferences therefrom. When our curiosity is aroused and we seek an explanation of something unfamiliar, we cast about for something more familiar with which to compare. Thus when men began to think about the observed phenomena of external nature, they saw certain likenesses to the observed phenomena of human nature, which were the basis of the first inferences and first beliefs as to the order of the physical universe.

In a primitive society the paramount task of the common life is to conciliate or persuade or hold down capricious individual self-assertion and in particular to propitiate or restrain masterful personalities whose wilfulness would otherwise disturb the peace and destroy the values of civilization. Accordingly the legal institutions of a primitive society are institutions for keeping the peace. They do not aim at justice. They do not aim at an ordering of the relations of human beings with each other and with their organized fellow men which shall express or realize principles formulating ideals of the highest good. They aim simply at keeping the peace. They aim at buying off the vengeance of the injured person, not at righting or preventing wrong. They aim at substituting an ordered self help for disorderly private war.

Thus as primitive man looked at his human environment, the outstanding phenomena seemed to be wilfulness and caprice; the outstanding task of the social order seemed to be to propitiate wilful human beings and to limit the scope of their caprice so as to make possible at least that minimum of life measured by reason which was called for by the exigencies of civilization.

When primitive man looked at his external and his extra-human (in that sense his natural) environment, not unnaturally he compared with his human environment; and as he compared them he could not fail to see certain likenesses which led him to seek to understand the one in terms of the other. Wind and rain, lightning, tempest and flood, drought and hail, and fire and pestilence, extremes of heat and cold—in short all the phenomena of external nature to which his life had to be adjusted—seemed capricious, unpredictable, and irrational, like the conduct of the masterful personalities with whom the social order had to deal. Hence he began by thinking of the order of nature in terms of the order of human society. His gods were wilful and capricious, as men were in that time. But, also as men were, they were organized in kin groups, with, as it

were, a strong house-father at the head of the group and a certain loose discipline in the whole.

Growth of orderliness and system in human control over human nature leads to belief in more orderliness and system in external nature. Indeed Greek philosophy began by seeking to explain the order of nature in terms of the ordering of society in the Greek city-state. As the city-state had a political constitution so the order of nature must rest upon some organization. The city-state was made up of certain elements, so nature must be made up of elements also. Ethical custom and tradition gave regularity to the conduct of the rules of the city-state, and the laws gave order and consistency

to the conduct of the ruled. There must, then, be something analogous which gave regularity to the course of action of nature and gave order and continuity and consistency to the conduct of the lesser divinities and the minor phenomena of our extra-human environment. Down to Socrates, who turned attention from the non-human to the human environment of human life, philosophy was concerned to explain external nature and sought to do so in terms of the organization of human society in that age.

Alexander's empire and the Hellenistic kingdoms furnished a new model, given greater currency presently by the example of the Roman emperor and the Mediaeval faith in an ideal but non-existent empire. In the seventeenth and eighteenth centuries this conception is carried over into modern thinking, for those were centuries of absolute central

governments. In politics the French monarchy of the ancient regime was setting the pace throughout Europe. Thus the Byzantine emperor of the mediaeval cosmology becomes a divine Louis XIV ruling absolutely over a centralized universe for which his ordinances are the law. When, after the French Revolution, these politico-theological cosmological ideas get into the hands of thinkers who do not assume to question the theology, but have different ideas of politics, the monarchy becomes a limited or constitutional one. The omnipotent ruler governs according to a constitution. Although omnipotent, yet, as James Wilson put it, he is under the "glorious necessity" of not contradicting himself. Reason furnished a constitution for the universe, as in the political thinking of the day it gave a chart for the guidance of human rulers in all places and all times, which could be formulated in written constitutions, declared in bills of rights, and translated into order for any people in any land.

It is noteworthy that the universe begins to get, as it were, a constitution at the same time that we begin to get involved political constitutions and the political



ROSCOE POUND, A.B., A.M., PH.D., LL.M., LL.D.

thinkers are debating the ideal of such a constitution. Thinking about physics came after thinking about politics as thinking about theology came after and was influenced by thinking about law. The influence of law, which had occupied the best minds of antiquity from Augustus to Diocletian and was at its height in the first quarter of the third century, could not but be felt when presently men turned their mental energies to theology. Without the least irreverence, when one looks at the Athanasian creed with respect to its form and method, he can but see that it is a great piece of legal reasoning. In like manner much that was written about the universe following the flowering time of political thought in the seventeenth century, shows the form and method and conceptions of a science of politics.

Perhaps I need not remind you that I am not speaking at all of religion. Nor am I suggesting the least criticism of theological systems on their neological side. I merely urge that as men have had to understand the order of the physical universe, whether they have put their understanding in terms of theology or philosophy or of natural science, it is worth while to perceive how completely these schemes conform in their organization to the dominant political order of the time.

Generally speaking, political thought or political analogies influenced the beginnings of cosmology and of physics, while the analogy of the order of the physical universe influenced political and legal thought in later stages of their development.

AS MEN more and more succeeded in putting order into society they sought to understand physical nature in terms of that order. In the same way as more and more they have learned from accumulated observations to predict the order of natural phenomena and from experiment to harness those phenomena to their use men have sought to understand the ordering of society by what had come to seem the more regular and more predictable phenomena of nature.

While the quest for stability just now takes the form of a turning to the physical sciences for analogies and patterns of thought, it is new only in the analogies and patterns. From the seventeenth century the emphasis has been strong upon the individual life in all political and juristic thinking. In the United States our institutions were formative in a pioneer, rural, agricultural society, and Puritanism, the demands of pioneer life, and Jeffersonian democracy successively acted upon our institutions still further to accentuate that emphasis. As we shift to an urban industrial society, the demands of the general security press upon us. We are unified economically. Politically and legally we are anything but unified. We have to live in a crowd with ideas of life and institutions of life formed for the frontier and the great open spaces. We are part of a complex economic order which calls for specialization and even some regimentation. But our whole bringing up has led us to distrust specialization, to have faith in versatility, to abhor any putting of the individual to work in his place in the order of things, and to expect him to find for himself the work that he conceives suits him and do it in his own way in such place as he prefers. Thus our institutions and modes of thought invite economic and political and social instability, and we seek, while protesting against any departure from the orthodox emphasis on the individual life, to find effective guarantees of stability. It is significant that those who preach loudest against paternalism and are most eloquent against anything that savors of regi-

mentation, are also foremost in praise of Mussolini—the apostle of these things in contemporary politics.

In the Middle Ages stability was assured by a regime of authority. Society was relationally organized. Men found scope for their individual life in the relation of lord and man or of brotherhood in monastery or guild or profession. The glory of the lord, of the order, of the craft, of the profession, was the individual's glory. His life was in its life. In such a society the Bible, the Fathers of the Church, Aristotle and Justinian, finally interpreted by competent authority, sufficed for all social, political, and legal questions. There was no need of looking to physical science. Indeed such science as there was tended to unsettle.

WHEN the mediaeval organization of society was replaced by a competitive economic individualism, when each man was to live his own life in himself and in competition with his fellows, when each man was free to interpret authority for himself, it became necessary to think once more about order and stability in an era of liberty and individual life. Such an era, perhaps, culminated in the system of individual rights and guaranteed individual liberties in the last century. On its heels we turn to the physical sciences, as the Greek philosophers turned to the analogies of nature.

During the whole development of individualism, from the end of the sixteenth century, we have been seeking to safeguard the general security from within. First men said the received Roman law was embodied reason and as such bound all men as reasonable creatures. Later they conceived they could frame detailed codes, so exactly drawn and so rationally worked out to all the consequences of principles of universal reason that all questions and controversies could be disposed of by a purely mechanical process, eliminating the personal equation of judge or magistrate, and thus ensuring a uniform, stable predictable adjustment of free individual lives. Such was the theory of Frederick the Great's code. Still later they conceived of historically given principles, realizations of the idea of freedom in human experience, which were to be developed by an inexorable legal logic so as to yield infallibly the logically preappointed decision for every possible case. None of these legal devices for bringing about a permanent body of precepts for an impersonal social control in a highly individualized society, valuing all things in terms of individual personality, has achieved its purpose.

IN THESE plans for stability in a society organized in terms of the individual life, the idea is to exclude all ethical element. If anything but the pure authority of the political organization is postulated the individual will of the magistrate will come into play and thus defeat the complete freedom of the citizen, who is to be governed by laws and not by men. Legal precepts are law and bind us because those who wield the law making power of the state say so in the appointed way. They are enforced because those who wield the executive power are able and inclined to enforce them; and that is all there is to it. If they are not enforced, the difficulty lies with those persons. Should the rest of us desire enforcement, we have only to put them out and put others in their place who will heed our desires.

Hence, as those whose chief concern is for the individual life have been turning to the other social sciences and seeking to unify the science of law and the science of politics therewith, those whose chief concern

is for order rather than for liberty have been turning to mathematical logic or to physics. They hope to set up a pure science of law in which the formulas are as mechanical, as absolute, as universal as those of the mathematician.

Certainly I wish nothing but the highest measure of success to those who are busied in the quest for such a method in the sciences of law and politics. If nothing else, it would immensely simplify the work of the law teacher. But I see no reason to believe that the analogies of physical science can take us any further than rationalism, and the analogies of geometry, and history, and the combination of logic with nineteenth century idealism were able to take us before them. I suspect that a science of law and a science of government purified by eliminating all that makes a science of either worthwhile, is too pure.

ARE WE not as completely upon the wrong track when we seek elimination of the subjective, the individual, the unique in our legal and political machinery as when, at the other extreme, we seek to dispense with the mechanical and to do without the apparatus of rule and form and logic which are the guarantees of stability? Can we hope to subsume liberty under order or order under liberty? Can we hope to put the individual life into strait-jackets of the general security or on the other hand to maintain the general security with no more than standards of individualization required for the individual life? That the attempts to state both in terms of one only have gone on from the beginnings of legal and political thought and after twenty-five centuries of ingenious speculation have come back to the point from which they started, at least suggests that such attempts are futile.

In truth what seems a simple problem of jurisprudence and of politics, to be disposed of by some solving method, of which resort to the analogies of physical science is but the latest in a long series, is much more and has its roots much deeper. It is but one phase of a fundamental question which has appeared in theology, in philosophy and in psychology as the controversy over free will and determinism, which turns up in biology as a controversy between vital and mechanistic theories of the phenomena of life, which in modern psychology divides the adherents of the orthodox psychology from the behaviorists, which in philosophy sets off the philosophies of mind from materialism, and in politics and economics individualism from collectivism.

He would be a rash man who, in view of the principles of modern science should say that science may not yet make good the claim of its more enthusiastic votaries that what seems the domain of free will, of the vital, of mind, of the unique individual, is no more than the unexplored region into which science has not yet penetrated. Yet he would be quite as rash who would give over what thus far has proved the only means of dealing adequately with the phenomena of the individual life at the mere challenge of physical science. What we can say with assurance is that so far as our knowledge goes we may do no more than make adjustments for the time being and the place in hand between the demands of the general security and the individual life which will give the greatest possible effect to each: which will sacrifice the least of either. The one calls for rule and form and logic and mechanical legal and political devices. The other calls for individualized judgment and discretion and trained intuitions of experienced administrators. The analogies of physical science may do something for the one. But for that one

we have adequate analogies as it is. For the other, such analogies are useless. Indeed it is only by eliminating all that the exigencies of the other have compelled us to bring into jurisprudence and politics, that it is expected to make the analogies of physical science profitable.

Yet one hates to come to what might seem the lame and impotent conclusion that we don't know—that we can't make an absolute and assured choice, can't take our stand absolutely for an out and out abstract individualism or an out and out economic realism or uncompromising collectivism or orthodox socialism. But the truth is none of these things in practice has ever been, or I suspect, ever can be carried to its logical or theoretical conclusions.

BY WHAT scale, with what measure are we to judge the general security and the individual life when we are called upon to adjust the demands of the one to those of the other? The contract theory of social institutions in the eighteenth century conceived of them as resting on an independent assent of free and, as it were, isolated individuals. It looked at things from the standpoint of the individual personality. When all things are so looked at, so that community values and civilization values are reckoned exclusively in terms of personality value, we shall think of the social and legal order as Jefferson did, on the analogy of a simple contract.

If, on the other hand, we choose the historical approach, which obtained in the last century, a very different conception of the purpose and nature of social and legal institutions impends. According to the contract theory, all institutions, all doctrines, were at the mercy of a new agreement, which might be made at any time, and, as Jefferson thought, ought to be made at frequent intervals. To this the historical theory, with its organic conception of institutions and its idea of continuity with the past, was radically opposed. It could but lead to a working at things from the standpoint of organized society and a tendency to reckon personality values and civilization values in terms of community values or political values.

What I would emphasize is that we are not bound to choose between these as inevitable alternatives. It is quite as possible to look at things from a third standpoint, namely, the standpoint of civilization. It is quite as possible to reckon personality values and community values in terms of civilization values. And this is exactly what has been happening beneath the surface in law and politics of the present.

THE discussion of individualism and collectivism or individualism and socialism which went on in the last century are obsolete for any but propaganda purposes because they assume a necessity of a choice we are not bound to make. A reckoning in terms of civilization is as distinct from the socialist reckoning in terms of the community as the latter is from the individualist reckoning in terms of individual personality. A reckoning in terms of civilization is as near to individualism as it is to collectivism. When individual self assertion and collective action are both counted as means, we have something which is neither individualism nor socialism, as those terms got their settled applications in the last century, but a distinct tendency, more and more characteristic of the present century. I suspect that in this idea of civilization, of the raising of human powers to their highest possible unfolding, rather than in attempts to make jurisprudence and politics vassals of physical science, we shall find the road to progress.



Left—'78 with F. P. Stahr, carrying their reunion cup, led the line. Parker-Smith, '84, paraded the active membership cup.

Flashes of Alumni Day Parade



'88—"Still Going Strong."

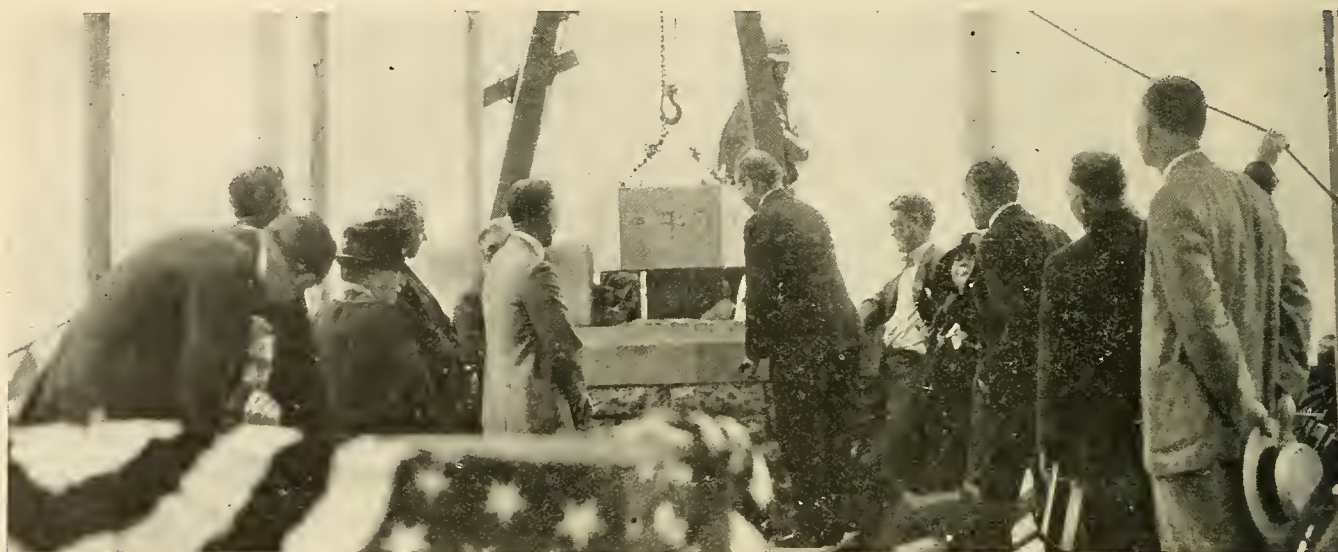


'93 prepared for rain or shine.

Below—This business-like delegation is '98.



Left—Each '03 man was dressed in a broad grin.



CORNER-STONE OF JAMES WARD PACKARD LABORATORY LAID ON ALUMNI DAY WITH IMPRESSIVE CEREMONIES

IT WAS with brief but impressive ceremonies that the corner-stone of the James Ward Packard Laboratory of Electrical and Mechanical Engineering was laid at noon on Alumni Day, June 9. The ceremony was held immediately after the annual alumni meeting had adjourned, in the presence of a large gathering of alumni, students, faculty and their friends who had assembled to witness this important step in Lehigh's progress. The corner-stone was laid in the base of the tower to be erected at the left of the south entrance. A spacious platform had been erected especially for the occasion, which was draped with the national colors.

The strains of the "University March" played by the band marked the opening of the ceremonies. While this was being played President Charles Russ Richards, Dr. Eugene G. Grace, President of the Board of Trustees, Warren Packard, II, nephew of James Ward Packard, '84, Walter R. Okeson, Treasurer of Lehigh University, Architects Theodore Visscher, '99, and James L. Burley, '94, Dr. H. S. Drinker, President Emeritus, The Rev. D. Wilmot Gateson, A. O. Leighton, one of the contractors, H. D. Wilson, '01, a trustee, Profs. Wm. Esty and F. V. Larkin, Mrs. Richards, Mrs. James B. Davidson and Miss Carlotta Packard, the latter two sisters of the donor of the building, assembled on the platform.

President Richards was the first to address the audience, but before he began his remarks, The Very Rev. D. Wilmot Gateson, the University Chaplain, led the assemblage in appropriate prayers.

Dr. Richards spoke as follows:

"While technical education in America began in

1824 at the Rensselaer Polytechnic Institute, the first school of its kind in any English-speaking country, it had made little progress up to the founding, almost simultaneously, of Lehigh University, the Massachusetts Institute of Technology and Cornell University. During the following fifty years, however, its progress was phenomenally rapid, as was indeed the case of knowledge in general and especially of science, invention and industry. While the industrial revolution that

preceded the marvelous period that we know today began near the close of the eighteenth century with the advent of the steam engine, it gained headway slowly until the development of a system of adequate higher scientific and technical education and research. Since that time the progress of the one and the other have been closely parallel despite the fact that there have been industrial leaders who were reluctant to admit that there is any inter-relation between the two.

"Lehigh University was founded by Asa Packer as a 'polytechnic college for the education of youth' because

of his recognition of the need for men who were better prepared than formerly to assist in the development of the industrial resources of America. That his vision of the value and importance of such an institution to the state and nation has been justified is effectively shown by the achievements of the 4417 graduates and the 7274 non-graduates of the University, many of whom have had a profound influence upon the development of the business, industrial, and intellectual life of the country. Of these achievements none are more significant than those of James Ward Packard, whose genius as an engineer, an inventor, and a business man



WARREN PACKARD, II, NEPHEW OF JAMES WARD PACKARD, '84, WHO LAID THE CORNER-STONE.

enabled him to create products in the fields of mechanical and electrical engineering, whose high quality is universally recognized, and to develop plants for their production.

"Realizing the importance of maintaining technical education and scientific research upon a plane of excellence that would enable them to serve more effectively than formerly in the further development of industry, and in recognition of his obligations to his Alma Mater, Mr. Packard gave generously of his fortune to enable the University to erect the building whose corner-stone we are about to lay.

"I have greatly regretted that, after his gift was made, Mr. Packard's health was such that he could not cooperate with us in the development of plans for the building. Each of us has had a keen sense of his responsibility in this work, and it has been my hope and constant prayer that the completed building will stand through the ages as a fitting monument to the man whose genius made it possible and as an instrumentality that will have an enduring influence for good upon the lives of countless future generations of Lehigh men and upon the industries that they will be trained to serve."

At the conclusion of his address, Dr. Richards conferred an honorary degree of Doctor of Engineering posthumously on James Ward Packard. The degree was forwarded to Mr. Packard's widow.

EUGENE G. GRACE, '99, President of the Board of Trustees and of the Bethlehem Steel Corporation, spoke briefly, expressing the regrets of all Lehigh Alumni and friends at the untimely death of Mr. Packard in March which cut short his life before he could see the magnificent building which he made possible. He expressed to the two sisters of Mr. Packard and to his nephew, who were present, the sincere appreciation of the alumni for Mr. Packard's gift which will mean so much to Lehigh. He added that the total gifts of Mr. Packard would almost equal in size that of the founder, Judge Asa Packer, who gave close to \$3,000,000 in establishing the University. As a conclusion to his brief remarks, Dr. Grace said he preferred to let Dr. Richards and Okey tell the story of the inception and development of the plans for the building since they had practically lived with it as their one main thought while the plans were being formulated.

In placing the copper box in the corner-stone, Walter R. Okeson, Treasurer of the University, described its contents with the following remarks:

"We have placed in this copper box to be opened by some future generation, documents which will tell the story of the Lehigh of today and indicate the steps that led up to the creation of this great engineering building. The documents consist of a 'History of Lehigh,' by Catherine Drinker Bowen, daughter of our President Emeritus; a set of views of the Campus and the College buildings; the current register or catalogue; this year's Directory of Alumni and Students; Dr. Richards' Study of the Needs of Lehigh which laid the foundation for the Greater Lehigh Campaign; all of the pamphlets that were issued during that campaign and since, that have to do with the securing of gifts for Lehigh; copies of the correspondence between James Ward Packard, '84, and myself relating to the original gift of \$1,000,000 and the subsequent gift of \$200,000 for this building of which we are about to lay the corner-stone; and all of the LEHIGH ALUMNI BULLETINS that contained news items or comment relating to the gifts and the use to which they are to be put.

"In order that you can see how simply a really big man does a monumental thing I am going to read you a few extracts from the early correspondence of James Ward Packard in regard to this gift. A few weeks after we sent out the pamphlet 'The Proposed Electrical and Mechanical Engineering Hall' or on November 22, 1926, to be exact, I got a letter from Packard which read:

"'Will you please give me a little more dope regarding the proposed new building? Just about what do you figure the building will really cost? How do you propose to raise the money? How long will it take to put it up? About where on the campus is it intended to locate it? What progress have you made towards raising the necessary funds, and what progress have you made or are you making in the matter?

"'I thank you for your prompt attention and reply.'

"Sometime before I had had a letter from him indicating his intention of doing something big for Lehigh. Had I known then what I know now, that this letter was to be followed shortly by the drawing of that wonderful will which makes Lehigh such a magnificent gift I would not have dared expect anything more. But not knowing this I was hopeful that perhaps he might decide on creating this great engineering building. I wrote at once and at length giving him all the information he asked for and on November 24 he answered and here is what he said:

"'I thank you very much for your letter of the 22nd inst., giving just the information I wanted in regard to the proposed new building. Without committing myself, I may say that I am greatly interested, of course, with the view of doing the job, and I'm strongly inclined to ask you for an option on it, or at least that you give me the privilege of carefully considering the matter for a couple of weeks, during which time you would not close with anybody else.'

"This, I think, is the only time in the history of the world that a man asked for an option to give a million dollars. You may be sure I wrote him by return mail giving him that option. Before the two weeks had expired I received from him a legal promissory note obligating himself to the payment of the money required. This note was dated December 8, 1926. Attached to it were no provisions, no strings of any sort. In making this magnificent gift he made but one condition and that was that a picture of the first Packard car be hung in the entrance hall. Well, we are going to do better than that. The Packard Motor Car Company has promised to give us the original car and in the lobby of this building on a specially designed pedestal protected by a plate glass covering will stand the car which symbolizes the achievements of this honored son of Lehigh."

AFTER the box was inserted, Dr. Richards introduced Warren Packard II, nephew of the donor and sales manager of the Packard Motor Car Company. Mr. Packard expressed briefly the appreciation for the regard in which his uncle's memory is being held here at Lehigh. He then proceeded to spread the mortar for the corner-stone as it was lowered into place.

Just before the exercises were brought to a conclusion, Dr. Richards introduced the architects who created the plans for the building and who are now working on the final plans for the addition to the library.

With the benediction by the Rev. Mr. Gateson and a selection by the band the ceremony, which will go down in Lehigh history as one of the most significant events in Lehigh's progress, was ended.

Big Reunions Characterize Alumni Gathering

**Many Happy Hours Spent by Hundreds of Alumni on the Campus
and Vicinity on Friday and Saturday, June 8 and 9.
Special Events Add Significance to Occasion.**

PERHAPS to the casual observer the gathering of Alumni on South Mountain this year differed but little from those which have been held for the past several years. But to that host of sons of Lehigh who returned once again to the campus and environs there was an unmistakable spirit of enthusiasm and optimism which permeated all the activities of the week-end; in fact, the atmosphere on South Mountain seemed to be literally saturated with it, from Thursday when the vanguard of the reunion classes began to arrive until Tuesday afternoon at the conclusion of the graduation exercises when those alumni who had a special interest in the commencement exercises departed.

Probably one of the big reasons for this high spirit running rampant was the realization that our greater Lehigh is actually beginning to materialize, as evidenced by the mammoth excavation on the campus just across from the chapel, where the foundations of Lehigh's greatest building are being laid. Then again, the announcement that the long-sought and so essential addition to the Library had evolved from a nebulous state to one of actuality may have been fresh in the minds of many and probably had its influence in raising their spirits to a higher pitch. Even though work on the Library has not started, the funds are practically assured and that is the hardest part of the job after all. Of course, all of the alumni are more or less familiar with the details of the plans of the engineering laboratory but it takes a first-hand view of the work in progress to bring home the significance of the job and what an advancement it will mean for Lehigh.

But to get back to the happenings of this eventful week-end. More than a few alumni put in an appearance on Thursday. In fact several of the reunion classes regretted that they had not planned some kind of an informal party for Thursday night since practically every one of these classes had a worthy representation in town by that time. Since Buck was back on the job, quite a number of '18 men were included among the first visitors at the office. Another early visitor was Nagle, '98, from Erie, who was in quest of some information about the swimming pool. He had his young son along with him who is quite an aquatic enthusiast, and a daily swim is a very essential part of this young man's existence. So for him a visit to Lehigh would not have amounted to much

without giving our pool a tryout.

Just how many were back for this notable occasion is hard to say, but the number at each event seemed to be greater than ever. Vacant seats were at a premium at the dinner Friday night; the alumni meeting on Saturday morning was more crowded than ever; and the crowd at the baseball game on Saturday afternoon was a

source of delight to Jack Petrikin. So taking these as criterions, it wouldn't be exaggerating to say that this reunion was one of the largest in our history.

The first formal event on the program was a luncheon meeting of the Board of Directors of the Alumni Association which was held on Friday at the Bethlehem Club.

Minutes of Meeting of the Board of Directors of the Alumni Association, Inc., Held June 8, 1928, at the Bethlehem Club, Bethlehem, Pa.

THE MEETING was called to order at one o'clock by the President, F. R. Dravo, '87, with the following members present: Frank R. Dravo, '87; Walton Forstall, '91; W. L. Estes, Jr., '05; Robert S. Taylor, '95; Walter R. Okeson, '95; J. S. Long, '14; Aubrey Weymouth, '94; H. D. Wilson, '01; H. H. McClintic, '88; Clarence W. Hudson, '89. There were present also the following of the new members of next year's board: Cadwallader Evans, '01; J. L. Beaver, '04; A. E. Buchanan, Jr., '18. The minutes of the last meeting were approved as printed in the May, 1928, issue of the LEHIGH ALUMNI BULLETIN. The Treasurer's report for the year was presented and showed a balance of \$1,847.44 to the credit of the Alumni Association with \$30,590.29 in the Life Membership Fund. It was pointed out that this comfortable balance vindicated the budget adopted by the directors a year ago and offered assurance that the method of financing the Alumni Association instituted at that time has worked out satisfactorily. The Treasurer's report was received for presentation at the Alumni Meeting and to be spread on the minutes of that meeting.

The Secretary's report was read and received for presentation at the Alumni Meeting and to be spread on the minutes of that meeting.

The progress of the Alumni Fund was discussed, the Secretary reporting that whereas the amount turned over to the University Income Account last year was a little over \$13,000 this year the amount going to the University will be \$22,000.

After some discussion as to the advisability of having the fiscal year of the Alumni Association correspond with that of the University, it was voted to change the fiscal year of the Alumni Association to run from September 1 to August 31.

Discussion as to ways and means of promoting the Alumni Fund resulted in

the decision to make no change in the present procedure and machinery before the next annual meeting of the directors in June, 1929. Thus the Treasurer of the University as Treasurer of the Alumni Fund will continue for the next year at least, to promote and collect the Alumni Fund. Some discussion followed as to methods of securing additional substantial contributions to the Alumni Fund. Forstall emphasized the potentialities of district club co-operation with the various class agents.

The advisability of modifying the method of nominating officers of the Alumni Association with a view towards stimulating interest in elections was discussed. It was moved by Wilson and seconded by Estes that a committee composed of Evans and Dodson with President Girdler, ex-officio, be appointed to formulate a report on this subject to be laid before the Board at its Fall meeting. Carried.

The resignation of Walter R. Okeson as Executive Secretary was presented and accepted. It was moved by Forstall and seconded by Hudson that Robert S. Taylor, '95, be delegated to express the sentiments of the Board of Directors in appreciation of Okeson's long and splendid service. Carried.

A. E. Buchanan, Jr., '18, was elected Executive Secretary.

Wilson recalled a suggestion previously offered providing for the erection of bronze tablets in memory of H. H. Scovil, '98, and Preston A. Lambert, '83, in the office of the Alumni Association. Wilson was appointed a committee of one to present specific data and recommendations on this project at the Fall meeting.

On motion the meeting adjourned *sine die*.

Respectfully submitted,

A. E. BUCHANAN, JR.,
Executive Secretary.

WELL, the first event of the week-end for the alumni in general was the baseball game with Muhlenberg, which we lost by a single run after a tough uphill fight, the final score reading 9 to 8. There was lots of action in the game anyhow and Muhlenberg breezed through its entire season without the loss of a game so this defeat doesn't leave such a bad taste after all.

Before the game started the annual presentation of athletic cups was made to the athletes who excelled in the various branches of sport. Because of Bosey Reiter's enforced absence from college since Christmas due to a heart attack, Fay Bartlett, of the Physical Education Department, supervised the awarding of the trophies which were presented to the following individuals and classes:

The Archibald Johnston, '88, football cup to Thomas F. Burke, '28. Burke was captain of the 1927 team.

The Ernesta Drinker lacrosse cup to Charles Richard Stauffer, '28. Stauffer was captain of this year's team.

The Nannie Lamberton Wilbur baseball cup to Charles I. Brady, '28, a pitcher.

The Lehigh Home Club wrestling cup to Robert B. Lewis, '28. Lewis is Eastern Intercollegiate Champion in the 135-pound division.

The Theodore H. Meyer field trophy to Jacob Levitz, '29.

The Phil. McGrath track cup to Wm. F. Goodlove, '30. Goodlove is a sprinter and was high scorer on the team.

The Beta Theta Pi cup for all-around attainment to Wm. B. Billmeyer, Jr., '28. Billmeyer was president of the senior class, was captain of this year's basketball team and also a letter man in track.

The John W. Maxwell, '26, cross-country cup to Donald G. Altken, '28.



It's '93 in case you can't distinguish the numerals on the badges. They were prepared for the rain which came later in the day.

Aitken was captain of the cross-country team in 1926.

The Roy A. Lewis Freshman wrestling cup to Robert H. Chess, '31.

The Ralph M. Dravo, '89, interclass lacrosse cup to the Class of '29. The Frank Dravo, '87, interclass swimming cup to the Class of '31. The Lehigh University interclass track cup to the Class of '30.

The Harry Fretz fencing cup to Joseph G. Bent, Jr., '28, and the sabers cup presented by the same man, to J. J. Longacre, '28. Both of these men retain these cups permanently since they have won them in successive years.

In spite of the fact that the ball game was well worth watching, the majority of the alumni left before it was over because they knew there

would be lots of excitement at the Hotel Bethlehem while the crowd was collecting for the dinner. The lobby began to fill up as early as six o'clock and the air was filled with the steady buzz of conversation. Analyzing this conversation it was found to be composed of such exclamations as "Well, look who's here!" "Married, and got two kids," "Where've you been for the last ten years?" and hundreds of others along the same line. By seven o'clock the lobby just teemed with alumni and their wives.

Along about 7:15, Sam Caum, '04, well-known to all Lehigh men as one of America's premier song leaders, made the announcement that the eats were ready, so the center of activity was transferred without the loss of any appreciable time to the ballroom on the second floor. It might be added here that there were quite a few who did not wait for the announcement but tried to get into the dining hall a little ahead of time but they met their match in the two stalwarts at the door, Austy Tate and Art Cusick, two of Lehigh's huskiest football captains of by-gone days.

Now while this dinner was in progress, the wives and families of some of the alumni were enjoying another dinner especially prepared for them in the Fountain Room of the same hotel. Mrs. Charlie Lattig, '03, assisted by several of the ladies of the faculty and wives of local alumni served as hostesses to the visiting wives. A card party had been planned but this was abandoned since the activities in the ballroom proved to be a much greater attraction. Who wouldn't rather see friend husband in action with some of his old classmates?



* Athletic stars of the year receive trophies.

Alumni Dinner Resembles Big Reunion of all Classes

Dinner Given in Honor of Class of '78 Who Were Presented With Gold Badges Symbolic of Their Fifty-Year Reunion. Other Reunion Classes Share Spot-light in Mock Presentation of Appropriate Gifts. Enthusiasm at High Pitch Throughout Evening.

MORE than ever before the Alumni Dinner of 1928 was a collection of class reunions, for each of the reunion classes had an unusually large delegation present Friday night. Tables had been provided for the usual numbers but no sooner had the crowd filed into the Ball Room of the Hotel Bethlehem than it became obvious that the reunion classes needed more space. '03 grabbed a table which was marked for '13; '13 therefore had to appropriate one of '18's and so on until it became a grand scramble for a seat wherever one could find it. Once more the elastic qualities of the Hotel Bethlehem facilities were demonstrated by taking care of 350 men in a room where 300 was supposed to be the limit.

It was a good night for singing and the festivities began as usual with "Hail to Lehigh", lead by the inimitable Sam Cann, '04, who long ago won undisputed title as song leader for the annual round-up of "dose Lehigh." Pat Pazzetti, president of the Lehigh Home Club, acted as master of ceremonies. Early in the proceedings he spotted Dr. Richards in the crowd and called on him to stand up while the crowd yelled approval. Gene Grace, President of the Board of Trustees, and Warren Packard, nephew of James Ward Packard, who was present to officiate at the corner-stone ceremonies the next day, also received ovations.

In accordance with the usual custom, the dinner was dedicated to the 50-year class. There were present five members of '78: C. Bull, J. W. Eckert, B. B. Nostrand, H. F. J. Porter and R. H. Read.

Recognition of them and the presentation of golden anniversary badges was the only formality in the evening's program. Frank S. Smith, '87, made the presentation, calling each of the 50-year men to the platform and introducing them in a few words telling their accomplishments and high spots in their career as undergraduates. The Class of '78 has left several noteworthy heritages to Lehigh. The first volume of the "Epitome" was conceived and executed by three members of '78: Howe, Paret and Porter. It was also through the efforts of '78 that Lehigh first stepped into prominence in intercollegiate athletics, by affiliating with the Intercollegiate Athletic Association, of which Porter was the treasurer in '78 and '79. Every Lehigh man of course, knows that the historic flag pole in the center of Lehigh's campus was the gift of the Class of '78 and that it was designed by W. C. Hazlett, '78. The long Le-

highs for the Class of '78 were wholehearted and full-throated and the five rugged representatives were roundly applauded.

In order that all the other reunion classes might have a moment in the spot-light, each was called forth in turn for a mock presentation which featured, in each case, a gift supposedly appropriate to its history. Thus '83 trooped up to the platform to receive from W. R. Okeson a framed photograph of the Lucy Packer Linderman Library. Okey explained that this building was new when '83 came to Lehigh and now that it is about to be remodelled, it seemed fitting that the members of the class should have something to remember the old library by.

Then came a surprise feature on the program with Okey on the receiving end of the presentation. Slim Murray, '95, marched to the platform and, towering miles above the crowd, told the gathering that the Class of '95, out of their affection for their classmate Okeson, wanted to give him some tangible expression of their feeling and it seemed to them that Okey's retirement as Alumni Secretary offered the necessary excuse. Speaking with evident feeling and sincerity, Murray recounted '95's early impressions of Okeson when the latter was fighting for a regular berth on the Lehigh team and then traced his career through the monumental accomplishments for the University he has achieved at Lehigh. He wound up by presenting to the embarrassed Okeson a very handsome wrist watch with the compliments and affection of his '95 classmates. Needless to say, the presentation was attended with unanimous popular approval and augmented by vociferous acclaim.

Taylor Allderdice, '82, was next introduced and he called upon '88 to take the stage. Taylor seemed to have the idea that he ought to read the little presentation speech that accompanied the '88 souvenir but the crowd insisted that he dispense with such formality and tell them a story. Taylor, however, was determined to finish the prepared remarks even though nobody listened, but finally somebody grabbed the manuscript and tore it up so that the presentation was made with the informality that the crowd demanded. As becoming the class which saw football take its place as a major sport at Lehigh, '88 was presented with a multi-colored ball and invited to keep in practice and matriculate all over again.

Aubrey Weymouth, '94, was introduced as custodian of '93's birthday

present. He explained that the finances of the University had always been in satisfactory condition until the class of '93 entered. When they left, he said, the place was on the rocks and has been trying ever since to make up for the deficit incurred by trying to educate such a class. In order that no other institution might suffer the same experience, he presented to '93 a treasure chest filled with what purported to be pieces of eight and jewels.

About this time, ring master Pazzetti spotted Johnny Opdyke, known to Lehigh men of the last five years as Al Jolson the second, down in the horde of '23 men in one corner of the room. Johnny was immediately dragged forth and crooned his stuff through a megaphone with his characteristic syncopation. Needless to say, the crowd called for more until Johnny gave up, exhausted.

Al Glancy, '03, presented to the Class of '98 a pair of old-fashioned stays explaining that as the last representatives of the Victorian Period at Lehigh, they would probably be the youngest men who would recognize the apparatus. Dick Morris and A. Parker-Smith, '84, presented a bottle of patent medicine labelled "Nu-Life" to 1903 in recognition of the stimulus given the University by their record breaking enrollment. R. P. Hutchinson, '04, presented a miniature trolley car to the Class of 1908 in remembrance of a certain Freshman-Sophomore scrap in which one of the Lehigh Valley Traction Company's cars was demolished. '13 was the recipient of a handful of tickets to the Lafayette game presented by Head Coach Austy Tate as '13 saw the completion of Taylor Stadium. 1918, the war class, received a pop-gun from Cadwallader Evans, '01, and '23 a tambourine from Dal Wilson, '01, who explained that because this class witnessed the launching of the Endowment Campaign they were entitled to this symbol of the Salvation Army and urged to continue passing it around for Lehigh.

The entertainment committee of the Lehigh Home Club provided several acts of professional entertainment which was interspersed throughout the evening. The wind-up came at about 10:30 with the Alma Mater. Following the dinner the Lehigh Home Club held an informal open house at the Bethlehem Maennerchor. Dutch lunch was served and entertainment provided in cabaret style by a troupe of vocal and terpsichorian artists. Between two and three hundred alumni joined in the merry-making which lasted well into the morning hours.

ALUMNI DAY

SATURDAY was one of those days that makes June famous; at least it started out that way but my how it ended. Anyhow, the deluge held off just long enough to enable the best part of the ball game to be played and for some to get to their reunion banquets without much difficulty, but a few waited a little too long and once the downpour started they had some more waiting to do.

To get back to the events of the morning. The crowd began to gather at the Alumni Building at an early hour, both inside and out, so by the time the meeting was called to order several hundred were on hand. The Class of '13 was very much in evidence

outside the building because a small group of their members, headed by W. K. Smith, had mistaken this occasion for the Fourth of July and were enjoying themselves shooting off fire crackers. In fact, this activity was very much in evidence throughout the day, much to the annoyance of some of the campus dogs.

It was planned to start the meeting a little earlier than usual but this was a hard task because who cares about a meeting when the old gang gets together again, maybe for the first time since leaving college. It finally did get under way about eleven o'clock and the large faculty room in the Alumni Building was soon filled to capacity.

departments during the past year, probably due in a large part to this increase in the amount of time available for research. Dr. Richards added that this has increased one of the problems of himself and the Board of Trustees, namely to gather sufficient funds to enable the departments to carry out this work.

Then the president outlined a few of the more significant advances made during the past year. A department of fine arts has been established with the object of developing some appreciation of the aesthetic which is more or less essential to engineers engaged in designing and other structural work. A department of journalism has been added to the English Department with the twofold purpose of strengthening the undergraduate publications and to afford an opportunity for students to major in that subject.

There have been a number of changes in the engineering curricula, continued Dr. Richards, including the inauguration of comprehensive examinations at the end of the sophomore year, covering the first two years' work in engineering. These tests are used to determine whether an engineering student is sufficiently qualified to continue his studies in the course he is pursuing. If he fails to show in these tests that he has acquired a working knowledge of the fundamentals taught in the first two years he is not permitted to continue his studies in engineering. Other comprehensive examinations have been introduced in the College of Arts and Sciences in the senior year, covering the work the student has done in his major. As a result of this, Dr. Richards asserted his conviction that this college at Lehigh now compared favorably with the smaller arts colleges in the East.

Minutes of the Annual Meeting of the Alumni Association of Lehigh University, Inc., Held in the Alumni Memorial Building, June 9, 1928

THE MEETING was called to order at 10:45 by President Frank R. Dravo, '87.

It was moved by Walton Forstall, '91, seconded by E. G. Grace, '99, that the roll call be taken from the registration cards in the Alumni Office. Carried.

It was moved by J. D. Berg, '05, seconded by Walton Forstall, '91, that the minutes of the last meeting as published in the July, 1927, ALUMNI BULLETIN be approved. Carried.

The President appointed the following tellers to canvass the ballot for officers of the Alumni Association: A. J. Standing, '10; S. L. Caum, '04, and George Beck, '03.

Dr. C. R. Richards, President of the University, was then introduced and presented a report of the past year's progress of the University.

Dr. Richard's Address

Dr. Richards gave a most interesting resumé of the many new developments at the University during the past year as well as the progress made in various directions. One of the most significant of these was the increase in tuition in every curriculum to \$400, together with a stiffening of the entrance requirements.

One of our present needs, as pointed out by Dr. Richards, and one in which every alumnus can help to some extent is an increase in the number of applicants for admission. If this is brought about, the scholastic "death rate" prevalent among our student body could be greatly reduced since the admission could then become a selective process, with preference given to those with the best records. At the present time, but forty per cent of the students entering receive their diplomas. A decrease in student mortality would mean a corresponding increase in efficiency of operation of Lehigh's teaching plant.

Alumni can help in this situation by influencing desirable students to come to Lehigh.

During the past five years, the faculty has grown about fifty per cent, according to Dr. Richards, with the result that the faculty is now adequate for the size of the student body and few if any of its members are overworked. It numbers about 150. Dr. Richards mentioned here that the increase in income has made an increase in the salary budget possible as well as a corresponding increase in the budget for departmental work. Another significant result pointed out by our president in this connection is that the majority of the members of the faculty have leisure time to devote to research. He said that he has observed an evidence of renewed interest and activity in most of the de-



66.7 per cent attendance — a tie with '78 for the cup.



Nearly half of the Class of '98 was "back".

The senior must pass this test with a "C" before he is eligible for graduation. Still another form of comprehensive was given this year for all seniors. It was compiled by the Carnegie Foundation and covered every existing branch of knowledge. The students were given a bonus of exemption in all or a certain number of subjects if they made a certain ranking. This test was given simultaneously throughout Pennsylvania to college seniors and Lehigh compared favorably with the other institutions as far as could be learned within this short space of time. More complete data will be available at a later date. While the tests favored arts men because of the broad field covered, the highest score was made by an engineering student.

Here Dr. Richards stressed again the desirability of increasing the number of applicants for admission, even though the limit in enrollment had been reached for the past two years. He told how the Dean's office had sent out three publications to interest prospective students. The first of these was a new edition of *Monuments* describing the achievements of alumni, the second was a pictorial review of college life at Lehigh and the other was a catechism, "What About College," written by Dr. Richards. The third of these publications proved to be just the thing that high and prep school seniors were seeking and the first printing of ten thousand fell far short of the demand and an additional fifty thousand had to be printed. This pamphlet did not contain any direct advertisement of Lehigh but served as an excellent indirect medium.

Dr. Richards then touched briefly upon the changes under way and those planned for the physical plant. He stressed the painstaking care which had been taken in preparing the plans for the Packard Laboratory. He also reiterated the plans for the addition to

the library which provided for a new building four times the size of the present structure with ample provisions for further expansion. He also mentioned the work under way in the rebuilding of the boiler plant to meet the increased needs of the University, at a cost of some \$80,000. Practically an entire new plant and appurtenances will be built during the present summer. The President also emphasized the necessity of remodeling the Physics and Chemistry Laboratories upon the completion of the Packard Laboratory.

Then Dr. Richards explained the plans, which have reached their preliminary stage, to erect additional dormitories in units on the eastern end of the campus above the Commons. It is his hope to be able to provide adequate housing on the campus for every student who desires it and to obliterate as much as possible the dual standard of living now in existence as a result of so many students being compelled to live in boarding houses. These proposed dormitories would be in the form of residence halls and would be reasonably attractive and comfortable so as to enable the occupants to live on a stand-

ard equal to that of the fraternity men.

Another need of the University enumerated by the President was an auditorium. The necessity of this can be seen each year at Commencement exercises when the capacity of the chapel is overtaxed.

The progress made in research work and the dissemination of the results obtained was also included in his summation of the year's events. There has been a steady increase in the demand for the publications of the Institute of Research. Another important step along the line of research was the appointment of a research professor in engineering materials in the person of Willis A. Slater.

In conclusion Dr. Richards summed up his address by saying that it was his aim to make Lehigh a contributor to the field of knowledge as well as a purveyor of knowledge.

Retiring President of the Alumni Association Frank Dravo made an appropriate comment at the conclusion of Dr. Richards' report, to the effect that Lehigh would need the resources of a federal reserve bank at its disposal if our president thought of many more requirements of Lehigh.

The report on the total number of contributions, members and percentage of contributors for each class was dispensed with. This report however is published on page 21.

President Dravo announced the exercises in connection with the laying of the cornerstone of the James Ward Packard Laboratory of Mechanical and Electrical Engineering and introduced to the meeting Mr. Packard's two sisters, Miss Carlotta Packard and Mrs. Davidson.

R. S. Taylor, '95, Treasurer of the Alumni Association, presented his report for the year, which is reproduced on page 19. The report was accepted.

Report of Executive Secretary

THIS is my final report as Alumni Secretary and I propose to make it brief for the reason that it is a bit hard to give up this job and every sentence reminds me that I am reporting to you for the last time.

Remembering the old saying about "quitting while the quitting is good"



Okey consigned appropriate documents to the corner-stone.

ALUMNI ASSOCIATION OF LEHIGH UNIVERSITY, INC.
STATEMENT OF CASH RECEIPTS AND DISBURSEMENTS FOR YEAR ENDING
MAY 31, 1928

Receipts

Dues:	
Arrears	
Current	\$ 7,735.00
Advance	
Interest on Life Membership Bonds.....	1,550.00
BULLETIN:	
Subscriptions	5,081.00
Advertising	6,330.22
	<u>\$ 20,699.22</u>

Sundry Receipts:

Refund from Greater Lehigh Fund.....	\$ 1,000.00
Profit on Alumni Dinner	239.50
Life Membership	100.00
Gain in Investments	104.17
Parkhurst Scholarship	400.00
BULLETIN Guarantee	2,194.50
Miscellaneous	86.74
	<u>\$ 4,124.91</u>
	<u>\$ 24,824.13</u>

Disbursements

Salaries	\$ 10,945.00
Printing and Mailing BULLETIN.....	9,709.15
Stationery, printing and stamps.....	656.96
Traveling and entertainment.....	477.31
Alumni Day Expense.....	213.82
Telephone, telegraph and express.....	163.02
Office supplies	298.38
	<u>\$ 22,463.67</u>

Sundry Disbursements:

Parkhurst Scholarship	\$ 100.00
Alumni Fund Refund	44.00
Alumni Prizes	150.00
Miscellaneous	8.00
	<u>602.00</u>
	<u>\$ 23,065.67</u>
Excess of Receipts over Disbursements.....	\$ 1,758.46

Statement of Cash Balances

Balance, May 31, 1927, General Fund.....	\$ 5.76
Balance, May 31, 1927, BULLETIN Fund.....	83.22
	<u>\$ 88.98</u>
Balance, May 31, 1928, General Fund.....	\$ 1,143.15
Balance, May 31, 1928, BULLETIN Fund.....	704.29
	<u>\$ 1,847.44</u>
Increase in Cash	\$ 1,758.46

Life Membership Fund

Total, May 31, 1927.....	\$ 30,490.29
Increase during year—Cash.....	100.00
	<u>\$ 30,590.29</u>
Total, June 1, 1928.....	\$ 30,590.29

Invested as follows:

Westinghouse Electric & Mfg. Co. 20 yrs. ts due 9-1-16....	\$ 5,000.00
Stanley Real Estate 1st Mtg. 5% S. F. G. Bds. due 6-1-15....	5,000.00
Youngstown Sheet and Tube Co. 1st Mtg. 5s due 1-1-78....	5,000.00
Canadian Pacific Ry. Coll. Tr. 4 1/2s due 9-1-16.....	5,000.00
Lehigh & New England R. R. Co. 1st Mtg. 5s due 7-1-15....	5,000.00
City of Copenhagen Ex. 5 1/2s due 7-1-11.....	5,000.00
City of Rock Island 5% due 2-2-31	100.00
Central Illinois Light Co. Bond.....	100.00
Cash Awaiting Investment	390.29
	<u>\$ 30,590.29</u>

Trust Funds (Not Invested)

Charles L. Taylor Fund.....	\$ 25.00
R. W. Gikenson Fund.....	25.00

Trust Funds (Invested)

Alumni Fund Endowment—One \$1,000.00 Pan-American Petrole-	
um and Transport Co. 7% Bond M 5644 due 8-1-30	\$ 1,000.00

R. S. TAYLOR, Treasurer.

W. R. OKESON, Executive Sec.

6-7-28, Audited and found correct, F. W. B. PHILP, '88



Dal Wilson, '01, in a solo number.

and it is mighty pleasant to me to be able to report that this past year has in many ways been the most successful of the eleven I have spent as your Executive Secretary. Also the end of the year finds us in the best condition financially and otherwise we have ever been.

We inaugurated a budget system a year ago and distributed our expenses over the various departments to which they properly belong. That is to say, the Alumni Fund and the Department of Publicity assumed their proper share of the cost of running the office. At the end of the year we find our income has somewhat exceeded our estimates while our expenditures have been kept within the budget limits. We have wiped out the deficit that both the Association and the ALUMNI BULLETIN had at the end of the last fiscal year and have a surplus in both accounts. In the case of the Alumni Association this is due first to the largest income from dues and BULLETIN subscriptions we have ever had and second to the relief from the expense of collecting this income as this work now falls on the Alumni Fund. In the case of the BULLETIN there has been no saving but rather an increase in cost but our advertising revenue is greatly increased being now in the neighborhood of \$6,500 a year. The BULLETIN is practically self-supporting as the subscriptions amount to over \$5,000 a year giving a total income of \$11,500 which just about covers the cost of editing, printing and mailing.

The Alumni Fund, now finishing its third year, has made great strides. Last year, after the Alumni Dues, BULLETIN Subscriptions and Class Dues were deducted there was left for the University Income Account slightly under \$13,000. This was a fifty per cent increase over the first year when a little over \$8,000 went to the University. This third year the amount going to the University will be \$22,000.

But this is not the whole story of the Alumni Fund. Within the past six weeks we have received new pledges to this Fund amounting to \$60,000. A few checks have already come in on these pledges and are included in the amount mentioned above as this year's receipts. To make matters clear I will say that at the moment there is pledged to the



'88, like Johnny Walker, "still going strong".

Alumni Fund almost \$80,000 a year for the University Income Account, thus making it possible for the Trustees to borrow a half million dollars and proceed at once with the reconstruction of the Library.

The largest single gift to Lehigh during the past year came from an alumnus, our late comrade-in-arms, James Ward Packard, '84, who sent me in February an additional \$200,000 for the Packard Laboratory thus making his total gift for this purpose \$1,200,000. After his death on March 20, 1928, we were advised by his Executors that a quarter of the income of his estate will come to Lehigh during Mrs. Packard's lifetime and a third of the estate is left to us upon her death. This will amount to at least a million and a half (and perhaps more) to be added to Lehigh's Endowment.

The summary of Alumni gifts during the year, including a \$10,000 bequest received from the Estate of A. B. Strickler, '96, is in round figures \$341,000. This covers gifts of every kind, whether for specific purposes, Endowment, or Alumni Fund. The total number of Alumni Contributors is 2,476 or 48% of the men carried on our official class lists. We should be proud of this record.

For my successor I bespeak the same co-operation that you have given me. Alumni work at Lehigh is really but started and with proper team work it can be made a force so great that its present achievements will seem puny when the then officers and members look back on our results a few years hence. I firmly believe that by alumni effort Lehigh can be made the outstanding University of its type in the world. To accomplish this it is only necessary for each of us to adopt the secret slogan I have kept to myself these eleven years but will now reveal: "Lehigh's alumni exist for Lehigh, not Lehigh for her Alumni." I mean this seriously. I am

tremendously fond of you all and you have been awfully good to me but I can't conceive of putting the interest of the dearest friend I have among you before Lehigh's interest. We are only individuals here for a few short years but Lehigh will be a continuing force in the world for centuries to come. We are finite. In comparison Lehigh is infinite. We can live on by building ourselves into Lehigh. How many people would remember Asa Packer today, less than fifty years after his death, had he not founded Lehigh? But having founded this great University, his memory will be fresh two hundred years from now.

We welcome today into our Association the men of 1928 whose course in Lehigh has been contemporaneous with the great accomplishments of the past four years. May their accomplishments in the world reflect Lehigh's achievements during their undergraduate days.

It is now my sad duty to read the list

of Lehigh Alumni who have died during the past year. In accordance with our usual custom we will stand during the reading of the roll of the dead.

C. A. Wolle, '69; H. S. Housekeeper, '72; Wm. White, Jr., '75; L. W. Curtis, '79; C. F. King, '80; H. B. Strong, '80; J. W. Kellogg, '84; J. W. Packard, '84; G. W. Snyder, '85; R. M. Lloyd, '86; T. J. Williams, '86; H. H. Birney, '87; G. S. Franklin, '88; W. N. Hoffman, '88; H. L. McIlvain, '88; C. E. Fink, '90; L. R. Lenox, '90; G. Nauman, '90; D. T. Williams, '90; J. deLa Escobar, '91; H. W. Kern, '92; J. P. Culbertson, Jr., '93; W. O. Polhemus, '93; J. A. Schloss, '93; C. Smithers, '94; J. T. Callaghan, Jr., '95; N. M. Holmes, '95; C. A. Crane, '97; E. M. Huggins, '00; C. E. Martinez, '01; W. D. Gernet, '03; G. L. Phillips, '03; B. A. Cornwall, '04; J. A. Seacrest, '05; A. L. Broomall, '06; S. Strauss, '06; A. A. Hamerschlag, '07; S. A. Reis, '08; H. T. Spengler, '08; F. F. Couch, '09; A. Maxwell Paget, '09; J. H. Bay, '11; R. S. Collins, '11; T. A. Bryant, '13; Wm. B. Todd, '14; H. J. Neyer, '16; C. N. W. Tomlinson, '19; K. W. Boyd, '20; H. J. Ott, '21; S. B. Walker, '21; H. R. Lobach, '24; H. C. White, '24; J. L. Childs, '25; R. A. McCann, '27.

Respectfully submitted,

WALTER R. OKESON,

Executive Secretary.

R. S. Taylor, '95, was called upon to present to the meeting the resolution adopted by the Board of Directors in appreciation of the retiring Alumni Secretary, Walter R. Okeson. His words are reproduced on page 6. Aubrey Weymouth, '94, moved that this resolution be adopted as the sentiment of the Alumni Association. Weymouth's remarks are also reproduced on page 7. E. G. Grace, '99, seconded the motion and presented a handsome brown leather folio embossed with the Lehigh seal, and containing the appreciation, beautifully engrossed. In presenting this gift, Grace remarked that he would be loathe to second any such motion if he had



The '03 crowd had a lot to talk over confidentially.

RECORD OF GIFTS TO LEHIGH

COMPILED TO JUNE 4, 1928

Class	Number in Class 1927-1928	Alumni Fund Contributors 1927-1928	Per- centage	Amount Paid to the Alumni Fund	Total of Contributors, Alumni Fund and Endowment	Percentage Including Endowment Contributions	Amount Paid to En- dowment Fund 1927-1928	Total Amount Contributed 1927-1928	Previous Contributions 1923-1927
'70	2	.....	.....	.....	.....	.....	.....	.....	\$ 1,000.00
'71	2	1	33%	\$ 7.00	1	50%	.....	\$ 7.00	6,014.00
'72	4	.....	.....	.....	.....	.....	.....	.....	1,007.00
'73	3	2	67%	14.00	2	67%	.....	14.00	10,043.00
'74	3	3	100%	36.00	3	100%	.....	36.00	1,264.00
'75	6	4	67%	78.00	4	67%	.....	78.00	12,734.00
'76	8	4	50%	32.00	4	50%	.....	32.00	169.00
'77	9	4	44%	91.00	4	44%	\$ 125.00	216.00	3,117.00
'78	9	6	67%	100.00	6	67%	.....	100.00	6,487.00
'79	6	2	33%	124.00	2	33%	.....	124.00	2,469.75
'80	5	1	20%	5.00	1	20%	.....	5.00	1,314.00
'81	1	2	50%	14.00	3	75%	90.00	104.00	631.00
'82	7	3	43%	118.00	3	43%	.....	118.00	2,852.00
'83	21	17	80%	417.00	17	80%	457.50	874.50	29,036.50
'84	14	12	86%	151.00	12	86%	202.54	200,353.54	1,007,947.50
'85	21	13	62%	167.00	13	62%	.....	167.00	2,237.00
'86	32	19	59%	422.95	20	63%	495.00	917.95	23,861.52
'87	44	29	66%	1,357.00	29	66%	2,008.33	3,365.33	61,311.95
'88	57	37	65%	3,060.00	37	65%	26,020.00	29,080.00	185,232.00
'89	52	34	65%	1,907.34	34	65%	11,575.00	13,482.34	117,489.00
'90	57	35	61%	468.00	37	65%	1,621.25	2,089.25	23,899.75
'91	44	29	66%	495.00	31	70%	345.00	840.00	14,333.00
'92	43	29	67%	409.00	29	67%	512.50	921.50	14,739.00
'93	76	45	60%	420.00	46	60%	737.50	1,157.50	12,853.50
'94	62	42	66%	2,090.00	43	70%	4,015.00	6,105.00	32,785.00
'95	98	75	76%	1,661.00	76	78%	5,297.16	6,958.16	49,886.51
'96	94	56	60%	817.50	57	60%	16,671.25	17,488.75	64,035.01
'97	74	50	68%	789.00	50	68%	650.00	1,439.00	22,014.50
'98	62	39	63%	592.00	41	66%	555.00	1,147.00	14,231.00
'99	41	29	70%	463.64	29	70%	1,555.00	2,018.64	116,129.00
'00	63	22	35%	1,193.00	23	37%	250.00	1,443.00	39,294.00
'01	59	38	64%	2,529.00	38	64%	271.25	3,300.25	25,535.75
'02	50	23	46%	813.00	24	48%	2,945.00	3,758.00	21,243.00
'03	88	53	60%	1,050.00	56	64%	2,125.75	3,175.75	21,173.75
'04	96	56	58%	680.00	56	58%	743.75	1,423.75	22,791.75
'05	109	61	56%	693.00	63	58%	425.00	1,118.00	8,270.00
'06	116	53	46%	842.00	55	47%	1,935.00	2,777.00	18,800.50
'07	129	67	52%	835.25	68	53%	2,508.75	3,344.00	12,892.75
'08	149	65	44%	868.00	67	45%	1,406.25	2,274.25	15,319.11
'09	139	62	45%	901.00	65	47%	1,180.00	2,081.00	11,189.50
'10	165	73	44%	1,127.00	74	45%	706.00	1,833.00	14,492.25
'11	123	37	30%	478.00	40	33%	482.00	960.00	7,408.89
'12	134	50	37%	740.00	50	37%	629.75	1,369.75	9,107.75
'13	143	53	37%	469.00	55	38%	902.50	1,371.50	7,562.50
'14	129	51	42%	3,004.00	55	43%	755.00	3,759.00	115,782.54
'15	124	55	44%	511.00	57	46%	357.50	868.00	3,791.15
'16	146	62	42%	620.00	66	45%	407.00	1,027.00	5,264.70
'17	168	67	40%	689.00	69	41%	248.00	937.00	5,958.34
'18	139	69	50%	591.00	72	52%	239.97	830.97	7,149.84
'19	148	57	39%	478.50	58	39%	352.50	831.00	5,660.50
'20	191	69	36%	641.00	72	38%	350.00	991.00	8,731.25
'21	176	72	41%	682.00	75	43%	841.46	1,523.46	6,658.54
'22	225	94	42%	921.00	99	44%	267.50	1,188.50	8,979.09
'23	256	106	41%	764.00	110	43%	621.50	1,385.50	6,526.25
'24	264	88	33%	528.00	92	35%	750.00	1,278.00	4,900.00
'25	247	88	36%	1,044.94	89	36%	225.00	1,269.94	2,378.00
'26	221	89	40%	864.00	89	40%	80.00	944.00	1,041.00
'27	243	104	43%	721.00	104	43%	.....	721.00	.....
	5,197	2,409	46%	\$41,946.45	2,476	48%	\$99,098.19	\$341,044.64	\$2,259,032.79



Here are the tellers of truth on the Library steps.

not the assurance that Okeson's efforts will continue to be extended in behalf of Lehigh. He also noticed that between the pages of the testimonial there was a small token of appreciation in the form of a check for \$5,000 made out in favor of Okeson which, said Grace, "He is privileged to spend in any way he chooses except he is not to use it to pay the C. O. D. charges on the wrist watch which the Class of '95 presented to him last night."

While it would not be strictly accurate to say that Okey was non-plussed, it was quite evident that he was very much affected. "It is quite impossible for me to express my appreciation of his demonstration or to say to you what is in my heart. I really believe that you are making a mistake in thus honoring me. I have merely done a job that I have been paid for doing and deserve no credit for it. The people who deserve the credit are those who have supported me, namely this group of Alumni of ours. They are the reason why these eleven years have been happy ones. I can only say to you now that I thank you."

President Dravo announced that the Active Membership Cup was won by the Class of 1884 with 86% of its members paid up for the year. Elmer Lawall, '82, representing the previous winner of the cup, handed it to A. Parker-Smith, representing '84. In accepting the cup, Parker-Smith paid tribute to his classmate, James Ward Packard, whose original gift of a million dollars stimulated all the members of '84 to emulate him according to their means and whose additional gift of \$200,000 was responsible for '84's position at the head of the list of class contributions for the year. The total amount contributed to the Alumni Fund during the year 1927-28, with a record of the ten classes having the highest percentage of contribu-

tors and the ten classes which made the largest contributions were posted before the meeting as follows:

June 7, 1927 to June 4, 1928	
Total Number of Contributors.....	2476
Percentage	48
Total Amount Contributed	\$341,044.64
Highest Percentages	
'74	100%
'84	86%
'83	80%
'95	78%
'81	75%
'99	70%
'94	70%
'91	70%
'97	68%
'92	67%
Highest Amounts	
'84	\$200,353.24
'88	29,080.00
'96	17,488.75
'89	13,482.34
'95	6,958.16
'94	6,105.00
'14	3,759.00
'02	3,758.00
'87	3,365.33
'07	3,344.00

President Dravo then extended a welcome to the Alumni Association to the Class of 1928 and introduced W. B. Billmeyer, president of the class, who reported that 81 members of 1928 had already pledged annual contributions to the Alumni Fund totalling \$843.00. Billmeyer explained that this report was only a preliminary one as he anticipated that a great many more of the members of the class would pledge their support to the Alumni Fund before they left the campus.

The tellers reported the total number of ballots cast as 807, resulting in the election of the following officers:

President.....	T. M. Girdler, '01
Vice-President.....	L. S. Horner, '98
Vice-President.....	N. E. Funk, '05
Archivist.....	J. L. Beaver, '04
Executive Secretary..	A. E. Buchanan, Jr., '18
Alumnus Trustee.....	F. R. Dravo, '87
Alumnus Trustee..	Cadwallader Evans, '01

Following the report of the tellers, President Dravo introduced the new President in a few well chosen remarks. "As President of Jones and Laughlin Steel Corporation he heads the third largest steel producer in the United States. When he was elected President of Jones and Laughlin I heard one of the leaders of the steel industry in the United States say to him, 'At last the steel industry has a man who can and will tell the truth'."

In taking the chair, President Girdler expressed appreciation of the honor conferred upon him and gave the meeting assurance that he would devote his earnest interest and best efforts to the work of the Alumni Association during the coming year. President Girdler called on the Secretary for announcements concerning the cornerstone laying, luncheon and reunion parade.

On motion, the meeting adjourned *sine die*.

Respectfully submitted,

A. E. BUCHANAN, JR.,
Executive Secretary.



'08 in the brown and white sports clothes.



T. M. GIRDLER, '01
President of the Alumni Association

As soon as the corner-stone ceremony was over, the Commons became the mecca for everybody and the shady spots in that vicinity were soon occupied by groups of old and new friends, chatting away merrily.

About this time, a number of gayly-clad individuals put in their appearance who turned out to be '18 Russians in their costumes. Then someone asked whether an artists' colony was being developed at Lehigh since a number of men attired as artists were to be seen among the crowd. But they were lucky '13 men, all professing to be "artists in their own line." Then '08 came along with colorful and appropriate suits composed of white trousers and brown coats, with flowing ties as well.

It wasn't long before the parade began to form down in front of Packer Hall. Caleb Kenney, '10, was chief marshal and organized and handled the P-Rade like an old master at the game.

Since the presentation of cups had been dispensed with on the field, Walton Forstall, '91, presented the reunion cup of his class to F. P. Stahr, '78, just before the parade started. The classes of '78 and '83 were tied with 67 per cent, but '83 graciously waived any claim to the cup in favor of the older class. The attendance records of the reunion classes as compiled from the registration in the office are as follows:

Class	Members	Attending	%
'78	9	6	66.7
'83	21	14	66.7
'88	57	24	42.1
'93	76	17	22.4
'98	62	30	48.4
'03	88	33	37.5
'08	149	35	23.5
'13	143	36	25.2
'18	139	45	32.4
'23	256	76	29.7
'27	243	49	20.1

As mentioned above, Stahr, '78, was the lone representative of his class in

the parade and he followed immediately after the band, carrying the reunion cup won by his class, down to the field and back again. He was followed by '83 whose large sign containing their class numeral made them conspicuous even at some distance.

Two large banners heralded the approach of '88, advertising the fact that they were "still going strong" even if they were out of college forty years. Now '93 must have been rather fearful of the weather because they were all equipped with umbrellas, brown and white, of course. Maybe these came in handy before the afternoon was over, but an umbrella didn't stand much chance in that downpour. Even though '03 didn't have any special costumes, they were very much in evidence since they had quite a number on hand and wore badges that didn't require spectacles on the part of the observer to determine what figures they contained.

Natty tam-o'shanter characterizes '23. Then to make sure that their identity would not be a mystery they wore badges and arm bands with the skidoo number prominently displayed, and carried canes to complete the outfit. This class was one of the reasons why the parade was considerably longer than usual. They had close to a hundred men in line which is an accomplishment of note for any class.

It wasn't so easy to determine the identity of the '27 men. They wore large sombreros, most of which were large enough to be worn right over their ordinary hats. It was easy enough to tell that they were '27 men but not so easy to recognize them individually.

After all the classes had assembled in front of the stand, the entire gathering sang the Alma Mater and gave a resounding cheer.

The game with Villanova was called in the eighth inning with the score 4 to 2 in favor of the visitors.

This year, all of the reunion dinners were held right in Bethlehem; in fact, they were all within two blocks of each other, the Hotel Bethlehem and the Bethlehem Club being the centers of



F. P. Stahr, '78, receives the reunion cup from Forstall, '91.

activity. So it won't be hard to make the rounds of the affairs starting with

45-Year Reunion of 1883

The members of the class began to gather in Bethlehem on the afternoon of June 8th and by the time of the Alumni Dinner ten filled the table set apart for the class.

Because of the enforced absence of two men who planned to be present but were detained at the last moment, the class was able to report only fourteen on hand out of twenty-one, and tied in percentage with '78 in the reunion cup contest. As long as '78 had tied us we gracefully resigned in favor of the older class, any claim to a toss-up.

The class dinner, held at the Hotel Bethlehem on Saturday evening, was voted by all those who attended to be quite a success, although there was no violation of the Eighteenth Amendment in any shape or form. During the course of the evening each member of the class gave a little account of the work which he had been doing, and these accounts were very interesting to the other members.

Those who were back for the "forty-fifth" were: T. Alderdice, H. A. But-
(Continued on page 33)



The Vulgar Boatman of 1918.



*"Old Men,
New Men,
Lehigh True Men"*

*The feature of the '08 costume
was ample pockets.*



'13 claimed to be artists in their own particular ways.



*The above army is the '23 turn-out, while on the
right we have a close-up of the rear ranks of '23
and behind them, '27 in sombreros.*



*Left—While the band played
the "Song of the Volga Boat-
men," '18 hauled in its ship.*

Largest Class is Graduated at 60th Commencement

Two Hundred and Ten Baccalaureate Degrees Awarded at Exercises on Tuesday, June 12. Baccalaureate Sunday, June 10, and Class Day, June 11. Two Honorary Degrees Conferred on Industrial Leaders.

WITH a graduating class far outnumbering any previous class in Lehigh's history, the sixtieth commencement exercises were held on Tuesday, June 12, at eleven o'clock in the Packer Memorial Chapel. Two hundred and ten seniors received baccalaureate degrees; fifteen masters' degrees were awarded and two honorary degrees of Doctor of Engineering were conferred.

Following the usual custom, the commencement exercises extended over a three day period starting with Baccalaureate Sunday on June 10, Class Day exercises on the following day and graduation on Tuesday. Of the graduates, 111 were engineering students while 53 were students in the College of Business Administration and 46 were Arts men. All of the exercises were attended by a large number of relatives and friends of the members of the graduating class, and by many alumni.

BACCALAUREATE SUNDAY

If ever a day were made to order for college exercises, Baccalaureate Sunday was.

The Very Rev. D. Wilnot Gateson, the University Chaplain, officiated at the exercises assisted by the Rev. Fred. T. Trafford, secretary of the Lehigh Christian Union. The choir of the Pro-cathedral Church of the Nativity rendered the music with T. Edgar Shields, organist and choirmaster, directing.

The baccalaureate sermon was delivered by the Rt. Rev. Frank William Sterrett, D.D., Bishop of Bethlehem, his subject being "The Abundant Life." To win the happiness of an abundant life, Bishop Sterrett proposed his five cardinal principles.

The first of these was "Be and do your best." To this effort should be added a "gracious sense of humor." The third point Bishop Sterrett made by quoting a former college professor of his, who said, "There are some things which even a young man does not know," therefore, "take advice." But coupled with a willingness to take advice there must be an ability to think independently and to arrive independently at sound conclusions. And the fifth principle should be "a personal religious conviction."

CLASS DAY

Monday afternoon was devoted to Class Day exercises and President Richards' reception. The exercises were held as usual on the campus within the shadow of the flagpole. The members of the graduating class assembled on the platform, clad in their caps and gowns while a large number of relatives and friends formed an interested audience for the exercises. The march "Stars and Stripes Forever," played by



Dr. Roscoe Pound, who delivered the commencement address, with President Richards.

the University Band provided the opening keynote for the exercises.

Wm. B. Billmeyer, Jr., the president of the class, formally opened the exercises with his salutatory. Then followed the class prophecy by Ralph M. Goepf, Jr. and Arthur F. Searing. The tablet oration was delivered by George W. Fearnside, Jr., and the last roll call was read by Carl O. Carlson, the class secretary. As the name of each man was called, he arose and shattered his long clay pipe on the mortar-board of a friend. This is a tradition which has long been observed at these exercises and signifies the close of four years' as-

sociation in good fellowship.

At the conclusion of the roll call, the class marched up to the terrace below Drown Hall, accompanied by the relatives and friends, where the class sprig of ivy was planted. The ivy oration was delivered by John R. Denise. The exercises were brought to a close by the singing of the Alma Mater.

The President's reception was held in the Alumni Memorial Building from four to six. The Seniors and their families, the Trustees, the Faculty and friends were the guests at this affair. The senior ball was held on Monday evening in Drown Hall.

COMMENCEMENT DAY

Commencement exercises this year, which were the sixtieth in Lehigh's history, probably differed but little from those during the past several years but somehow or other the dignity and significance of the occasion always creates a feeling of deep animation and sentiment in the hearts of all who are present, whether they participate or whether they are just interested spectators.

The jests and quips of the seniors as they are forming their line preparatory to the academic procession from the Alumni Memorial Building to the chapel, the trustees and professors with their bands of brilliant hues in vivid contrast against the black gowns, the National and University flags at the head of the line of seniors combine to create a scene which becomes more impressive with each succeeding year. Then as the bell in the tower of Packer Hall tolled eleven o'clock, the band struck up a lively tune and the seniors



John R. Denise (third from left) delivering the ivy oration at the conclusion of the Class Day exercises.



The National and University Flags added color to the academic processions.

started on their final march to the chapel as undergraduates, followed in turn by the faculty, the trustees and the officials of the University. The procession countermarched before entering the chapel so that President Richards and Dr. Pound, the commencement speaker, entered at the head of the line preceded only by the chaplain and his assistant. As the procession entered the chapel the march was continued by T. Edgar Shields on the organ.

After a prayer by Chaplain Gateson and another organ selection, Dr. Richards introduced Dr. Roscoe Pound, Dean of the Harvard Law School, who delivered the commencement address, "The Social Order and the Order of Nature." This address is reproduced on pages 8 to 10 of this issue.

The members of the graduating class who received their diplomas were as follows:

Master of Arts: Mary Dwyer, Bethlehem; H. F. Fehr, Bethlehem; K. P. Otten, Bethlehem; W. W. Perkins, Chicago, Ill.

Master of Science: W. S. Bailey, Bethlehem; R. J. DeGray, Harrisburg; W. S. Egge, Bethlehem; B. H. Jennings, Baltimore, Md.; H. C. Jones, Wilkes-Barre; W. L. Kichline, Bethlehem; J. A. King, Bethlehem; P. F. Schlingman, Schenectady, N. Y.; C. W. Simmons, Kingston, Ont., Canada; M. A. Thorpe, Williamsburg, Va.; E. K. Zimmerman, Passaic, N. J.

Bachelor of Arts: I. Abrom, Bethlehem; D. B. Alexander, Allentown; H. S. Alwine, Spring Grove; C. S. Ames, Hazleton; A. B. Baldree, Melber, Ky.; C. P. Berman, Newark, N. J.; W. B. Billmeyer, Jr., York; N. M. Bittrich, Bethlehem; T. F. Burke, Jr., West Pittston; G. T. E. Cleveland, New London, Conn.; W. C. Cooper, Shamokin; W. V. Dixon, Bethlehem; A. C. Evans, Lancaster; H. H. Feisner, Jr., Eckly; G. M. Fenstermacher, Telford; R. E. Flynn, Concord, Mass.; R. J. Gibson, Chaptico, Md.; P. G. Gilmore, California; E. Giordano, New York City; S. Gordon, New York City; H. C. Hansen, Brooklyn, N. Y.; W. S. Heil, Allentown; W. M. Heilman, Kittanning; K. E. Heim, Reading; M. Horowitz, Brooklyn, N. Y.; R. J. Jones, Bath; P. Klempner, Trenton, N. J.; R. M. Knerr, Allentown; C. M. Leister, Bethlehem; L. Levin, Trenton, N. J.; S. E. Levine, North Adams, Mass.; J. J. Longacre, Weaversville; W. F. Palm, Bethlehem; W. C. Pitman, Jr., Orange, N. J.; D. A. Randall, Shamokin; A. A. Retino, Jersey City, N. J.; J. V. Rubino, New York City; M. Sall, Philadelphia; H. F. Salomon, New York City; J. R. Sherman, Hazleton; G. D. Smith, Allentown; W. J. Steidle, Jeddo; A. A. Swallow, Bryn Mawr; J. Swinton, Linden, N. J.; N. Tyler, Jersey City, N. J.; N. E. Vogel, New York City.

Bachelor of Science (In Bus. Ad.): E. F. Arnold, Mt. Vernon, Ohio; P. A. Bauman, Danville; J. H. Beauchamp, Bethlehem; B. S. Berman, Reading; J. R. Brooks, Miami, Fla.; W. S. Buck, Bethlehem; J. G. Castle, Lockport, N. Y.; K. Chickering, Oil City; E. C. Cigol, Paterson, N. J.; F. L. Clayton, Joplin, Mo.; W. H. Colver, Jr., Speeceville; E. C. Craft, Pennington, N. J.; P. G. Damiani, Philadelphia; R. Ellis, Ridgewood, N. J.; N. M. Emery, Jr., B.S., (Haverford College), Bethlehem; J. Y. First, Bethlehem; A. W. Gee, Fall River, Mass.; M. Goodman, Bethlehem; R. F. Hartman, Allentown; J. W. Helmstaedter, Jr., Newark, N. J.; C. J. Herwitz, Brooklyn, N. Y.; D. J. Hoaster, Lebanon; L. M. Horton, Glen Ridge, N. J.; J. C. Kelley, Harrisburg; L. H. Kise, Allentown; J. L. Kosminsky, Reading; H. Kramer, Brooklyn, N. Y.; W. L. Lasher, Rochester, N. Y.; H. A. Lenna, Jamestown, N. Y.; B. Levitz, New York City; G. I. McCoy, Peekskill, N. Y.; C. G. Martz, Harrisburg; D. Mastro, Reading; S. E. Mead, Saratoga Springs, N. Y.; J. S. Miller, Harrisburg; D. P. Mitchell, Jr., Woodbury, N. J.; J. C. Morrison, Ithaca, N. Y.; W. E. Musser, Lewistown; M. S. Nauss, Wrightsville; J. H. Plummer, Williamsport; W. A. Raleigh, Jr., Baltimore, Md.; M. E. Remaley, Brooklyn, N. Y.; C. A. Roberts, Parkersburg, W. Va.; A. F. Searing, Glen Ridge, N. J.; G. M. Simes, Brooklyn, N. Y.; G. Spalding, Louisville, Ky.; W. P. Starkey, Jr., Chestnut Hill; C. R. Stauffer, Bethlehem; W. W. Wiegand, Hollis Gardens, N. Y.; D. R. Wilson, Buffalo, N. Y.; J. E. Winters, Jamestown, N. Y.; C. L. Wright, Hempstead, N. Y.; J. A. Zerbe, Reading.

Chemical Engineer: E. S. Barnitz, Salem, Va.; F. C. Bogerman, Paterson, N. J.; W. Campbell, Fullerton; D. R. Clarke, III, Bethlehem; E. W. Diener, Allentown; L. D. Grady, Jr., Caldwell, N. J.; R. B. K'burg, Cincinnati, Ohio; C. J. Koehler, Pleasantville, N. J.; R. T. McClarin, Philadelphia; E. W. McGovern, Bethlehem; C. E. Maier, Allentown; W. M. Orthlip, Oxford, Pa.; H. F. Shenton, Slatington; L. H. Sudholz, Brooklyn, N. Y.; N. I. Tyler, Ridgewood, N. J.; R. W. Walker, Little Rock, Ark.; H. F. Weaver, Bethlehem.

Bachelor of Science (In Chem.): R. M. Goepp, Jr., Philadelphia; R. M. Roderick, Wilkes-Barre.

Civil Engineer: R. R. Althouse, Philadelphia; E. G. Bartoo, Ridgewood, N. J.; G. W. Beckman, Hellertown; M. E. Bender, Harrisburg; J. A. Betterly, Scranton; J. K. Bolton, York; R. A. Canning, Bethlehem; S. Case, Flemington, N. J.; C. M. Christman, Sinking Springs; C. F. Class, Jr., Harrisburg; J. A. Covert, Germantown; E. L. Deichler, Jr., Upper Darby; G. W. Fearnside, Jr., Bowling Green, Ohio; E. H. Gardner, Bethlehem; G. B. Grunwell, Punta Gorda, Fla.; N. C. Hill, Oak Park, Ill.; J. A. Hoffman, Fleetwood; J. C. Imwold, Baltimore, Md.; R. B. Jewell, Winsted, Conn.; E. T. Kelly, Brooklyn, N. Y.; G. R. Lynn, Jr., Pottsville; J. B. Olden, Princeton, N. J.; P. J. O'Leary, Waterbury, Conn.; H. W. Palm, Bethlehem; J. E. Rexach, New York City; N. G. Schreiner, Philadelphia; G. J. Speicher, Lebanon; D. B. Straub, Pittsburgh; R. A. Ullery, Pittsburgh; N. W. Wagner, Norristown; F. M. Willis, Richmond, Va.; W. E. Wil-

son, Madison, N. J.

Electrical Engineer: J. G. Bent, Jr., Baltimore, Md.; W. P. Booker, Portsmouth, Ohio; J. H. Bramble, Baltimore, Md.; R. Doehne, Harrisburg; R. H. Eckhouse, Brooklyn, N. Y.; J. C. Frey, Wilkes-Barre; W. D. Goodale, Jr., E. Orange, N. J.; C. F. Haas, Mazatlan, Sinaloa, Mexico; W. W. Hoeke, Jr., Washington, D. C.; K. B. Hoffman, Allentown; J. Korsznio, Saugatuck, Conn.; C. K. Krause, Harrisburg; Richard L. Laudenslager, Schwencksville; R. J. Levy, New York City; D. Maiese, Camden, N. J.; R. J. Manner, Bethlehem; J. B. Murray, Phoenixville; J. S. Pennock, II, Cochranville; T. G. Pierson, Washington, D. C.; E. L. Rerig, Hazleton; L. R. Schreiner, Chevy Chase, Md.; V. D. Skakandy, Nesquehoning; C. S. Thaeler, Nazareth; H. C. Towle, Jr., North Cohasset, Mass.; L. D. Warner, Bryn Mawr; M. E. Welch, Bayonne, N. J.; T. F. Wilson, Bethlehem; R. Zerweck, Bethlehem.

Engineer of Mines: D. S. Cunningham, Ben Avon, Pa.; J. V. Danko, East Port Chester, Conn.; J. H. Farrell, Jr., Mt. Carmel; C. W. Johnson, New York City; F. E. Kuchinski, Minooka; E. G. Watkins, Wilkes-Barre.

Bachelor of Science (In Eng. Physics): B. L. Snively, Lancaster.

Bachelor of Science (In Ind. Eng.): J. R. Denise, Oakmont; R. P. Gillham, St. Petersburg, Fla.; A. V. Harris, Jr., New York City; J. G. Knight, Easton; D. G. Miller, Spring Glen; W. W. S. Mueller, Maplewood, N. J.; H. L. Robbins, Port Norris, N. J.; C. G. W. Ryerson, Brighton Heights, N. Y.; R. W. Sweitzer, Philadelphia; A. H. Trumbull, New York City; N. S. Young, Huntington, N. Y.

Mechanical Engineer: C. B. Bayer, Shoemakersville; C. B. Griffith, Washington, D. C.; D. M. Horner, Oberlin; P. H. Koch, Macungie; W. A. Laidlein, Williamsport; C. U. Messinger, Tatamy; W. J. Scarlett, Erie; F. L. Schwartz, Harrisburg; A. E. Smith, Allendale, N. J.; A. J. Sweitzer, Brooklyn, N. Y.; E. H. Talbert, Washington, D. C.; G. B. Thom, Philadelphia; A. H. Trumbull, New York City.

Metallurgical Engineer: E. P. Kost, Torrington, Conn.

R. O. T. C. Commissions

Commissions as second lieutenants in the reserves were awarded to the following members of the graduating class by Lt. Col. Clarence Deems of the Third Corps Area, Baltimore:

Infantry: R. R. Althouse, Philadelphia; J. A. Betterly, Scranton; T. F. Burke, Jr., West Pittston; P. G. Gilmore, California; R. F. Hartman, Allentown; J. W. Helmstaedter, Jr., Newark, N. J.; F. B. Jester, Dallas, Texas; W. A. Laidlein, Williamsport; W. L. Lasher, Rochester, N. Y.; B. Levitz, New York City; J. S. Miller, Harrisburg; H. O. Nutting, Lebanon; W. F. Palm, Bethlehem; E. M. Paschall, Dauphin; M. W. Robinson, Bethlehem; T. G. Pierson, Washington, D. C.; G. M. Simes, Brooklyn, N. Y.

Ordnance: C. C. Leader, Shamokin; N. J. Kramer, Rutherford Heights; C. C. Keyser, Camden, N. J.; W. E. McGovern, Bethlehem; N. G. Schreiner, Philadelphia; B. L. Snively, Lancaster; R. H. Van Horne, Germantown.

The following received certificates of eligibility as second lieutenants, the commissions being withheld because the candidates were under age: R. C. Davis, St. Petersburg, Fla.; W. D. Goodale, Jr., E. Orange, N. J.; J. A. Lutz, Jr., Myerstown, Pa.; E. H. Talbert, Washington, D. C., and F. M. Willis, Richmond, Va.

Honors and Prizes

The list of those graduated with honors and the prizes awarded to members of the graduating class were announced by Dean Charles McConn as follows:

B. L. Snively, Lancaster, Pa., was the lone recipient of highest honors; those receiving high honors were C. P. Berman, Newark, N. J.; K. E. Heim, Reading, Pa.; C. M. Leister, Bethlehem; J. J. Longacre, Weaversville, Pa.; J. R. Sherman, Hazleton, Pa.; N. Tyler, Jersey City, N. J.; E. W. McGovern, Bethlehem; R. M. Goepp, Jr., Philadelphia; C. S. Thaeler, Nazareth, Pa.



Telephone service, a public trust

*An Advertisement of the
American Telephone and Telegraph Company*



THE widespread ownership of the Bell Telephone System places an obligation on its management to guard the savings of its hundreds of thousands of stockholders.

Its responsibility for so large a part of the country's telephone service imposes an obligation that the service shall always be adequate, dependable and satisfactory to the user.

The only sound policy that will meet these obligations is to continue to furnish the best possible service at the lowest cost consistent with financial safety.

There is then in the Bell System no

incentive to earn speculative or large profits. Earnings must be sufficient to assure the best possible service and the financial integrity of the business. Anything in excess of these requirements goes toward extending the service or keeping down the rates.

This is fundamental in the policy of the company.

The Bell System's ideal is the same as that of the public it serves—the most telephone service and the best, at the least cost to the user. It accepts its responsibility for a nation-wide telephone service as a public trust.



DOCTORS OF ENGINEERING

Left — Samuel Dexter Warriner, '90, President of the Lehigh Coal and Navigation Co. and Lehigh and New England Railroad and one of the country's leading mining engineers.

Right — John Farrell Metten, President of the Marine Engineering Corporation and one of the leading authorities in America on naval engineering and architecture.



Honorary Degrees

Honorary degrees of Doctor of Engineering were conferred upon two leaders in industrial fields, one of whom is a distinguished Alumnus Trustee of Lehigh. Samuel D. Warriner, '90, of Philadelphia. Mr. Warriner is President of the Lehigh Coal and Navigation Company and the Lehigh and New England Railroad. The other honorary degree was conferred on John F. Metten, noted marine engineer, also of Philadelphia. The same degree was conferred posthumously on James Ward Packard, '84, Alumnus Trustee, at the laying of the corner-stone of the engineering laboratory, of which he was the donor.

In presenting Mr. Warriner for his degree, Prof. Howard Eckfeldt, head of the Department of Mining Engineering, recounted the outstanding achievements of the former.

Having graduated from Amherst College with the Degree of Bachelor of Arts in 1888, Mr. Warriner chose to supplement that knowledge with the study of engineering, and in 1890 he received the degree of Bachelor of Science and of Engineer of Mines from Lehigh.

Thus broadly equipped as a scholar and engineer, Mr. Warriner's advancement was rapid. Entering the engineering department of the Lehigh Valley Coal Company in 1890, he became its mechanical engineer in 1896. From 1897 to 1901 he was superintendent of the great Calumet and Hecla Copper Mining Company.

Returning to the Lehigh Valley Coal Company in 1901 as general superintendent, he became general manager, and vice-president and general manager in rapid succession. He had by this time become a recognized captain of industry, and in 1912 was elected President of the Lehigh Coal and Navigation Co., and of the Lehigh and New England Railroad Company, which offices he now holds.

A simple recounting of the positions which Mr. Warriner has held and most capably administered might be a sufficient measure of his outstanding ability but it must needs be mentioned that he is generally recognized as the leading Mining Engineer in the anthracite coal industry.

He was a member of the Roosevelt anthracite conciliation board from its inception in 1903 until 1924. As chair-

man of the anthracite operators' conference, he is likewise spokesman for the anthracite mine operators, and we have but to turn to recent industrial history to appreciate the tremendous part which he has played as a leader in matters of general policy in questions pertaining to labor negotiations, taxation of mineral lands, research and administration.

As a scholar, engineer, keen administrator, a captain in the great basic industry of coal mining, and a member of the Board of Trustees of his Alma Mater, Lehigh University honored one of her illustrious sons, Samuel Dexter Warriner.

Professor Fred V. Larkin, head of the Department of Mechanical Engineering, in presenting Mr. Metten for his degree, pointed out some of his more notable achievements in naval engineering. As a young man, Mr. Metten entered the field of naval architecture, and, foregoing a college education, began a career of design, development, invention and achievement which has won for him a foremost rank among the Naval Engineers and Naval Architects of the world.

Draftsman from 1894 to 1900, for the Newport News Ship Building and Dry Dock Company, and later successively chief draftsman, chief engineer and vice-president of the William Cramp and Sons' Ship and Engine Building Company, Mr. Metten wrought a patient, painstaking, mechanical genius which has been manifested in high speed merchant vessels, in destroyers and in the most satisfactory and efficient scout cruisers of the United States Navy.

Mr. Metten's success in the application of direct turbine drive for the propulsion of the fastest passenger ships built in America, and his achievements in the application of turbine reduction gear drives to the outstanding merchant vessels, destroyers and scout cruisers built in this country, won for him the distinction of being charged with the adaptation of the Burmeister and Wain

Those graduating with honors were: H. H. Feissner, Jr., Eckly, Pa.; R. J. Gibson, Chaptico, Md.; D. A. Randall, Shamokin, Pa.; A. A. Swallow, Bryn Mawr, Pa.; N. M. Emery, Jr., Bethlehem; S. B. Mead, Saratoga Springs, N. Y.; J. S. Miller, Harrisburg; D. P. Mitchell, Jr., Woodbury, N. J.; W. W. Wiegand, Hollis Gardens, N. Y.; L. D. Grady, Caldwell, N. J.; H. F. Shenton, Slatington, Pa.; H. F. Weaver, Bethlehem; J. A. Betterly, Scranton; J. K. Bolton, York, Pa.; C. F. Class, Jr., Harrisburg; E. H. Gardner, Bethlehem; R. B. Jewell, Winsted, Conn.; N. G. Schreiner, Philadelphia; J. S. Pennock, 2nd, Cochranville, Pa.; H. C. Towle, Jr., North Cohasset, Mass.; R. Zerweck, Bethlehem; F. E. Kuchinski, Minooka, Pa.; J. R. Denise, Oakmont, Pa.; J. R. Knight, Easton, Pa.; E. H. Talbert, Washington, D. C.

Those graduated with special honors in various courses were as follows: C. P. Berman (French), Newark, N. J.; R. J. Gibson (Philosophy), Chaptico, Md.; R. M. Goepp, Jr. (Chemistry), Philadelphia; R. L. Laudenslager (Elect. Eng.), Schwenksville, Pa.; D. A. Randall (English), Shamokin, Pa.; J. R. Sherman (Economics), Hazleton, Pa.; N. E. Vogel (German), New York City; R. Zerweck (Elect. Eng.), Bethlehem.

John A. Betterly, of Scranton, was the honor graduate in the Reserve Officers Training Corps.

The Wm. H. Chandler prize for the highest ranking senior in chemistry was awarded to R. M. Goepp, Jr., Philadelphia. The prize for the best thesis in Electrical Engineering went to Kermit B. Hoffman, of Allentown. The E. H. Williams, Jr., senior prizes in English were awarded to D. A. Randall and K. E. Heim, both of whom are also in the above honor list. The Williams prize in Philosophy and Psychology was awarded to R. J. Gibson of Chaptico, Md.



Ingersoll-Rand Rock Drills are used extensively in the New York subway work



New York~ The World's Greatest Mining Camp

ENGINEERING construction work has made New York City a great mining camp in which thousands of workers are busy tunnelling or excavating its rocky base. Miles of new subway tunnels and hundreds of foundation excavations, often to a depth of five or six stories, involve the removal of vast quantities of solid rock. In these great engineering developments Ingersoll-Rand compressed air machinery has played a most significant part. In fact, the cost of many famous projects would have been prohibitive without the use of air-operated devices.

Since 1871 Ingersoll-Rand Company has been meeting the demand for pneumatic

machinery of the most advanced type. Its engineers have been constantly in touch with great construction and mining projects the world over, rendering a most valuable service in improved machines and methods.

Originally specializing in the manufacture of mining machinery, the Company has since developed mechanical equipment that is now being used in practically every field of industry. Its products now include various types of oil engines, steam condensers, pumps, gas engines, pneumatic tools, tie tamping machines, air lift pumping systems, rock and core drills, turbo blowers, and air compressors for every class of service.

INGERSOLL-RAND COMPANY
11 Broadway . . . New York City
Offices in principal cities the world over

Ingersoll-Rand

Diesel engine to American requirements.

In 1927 when six scout cruisers authorized by Congress were awarded to three United States navy yards and to three American ship building companies, Mr. Metten was drafted by the Navy and by the three ship building companies to become President of the Marine Engineering Corporation, an organization charged with the design and engineering of these cruisers, and created for the primary purpose of making his ability and experience jointly available to the interests of the six constructing organizations. This is unique and far-reaching testimony to the genius and achievement of the man whom Lehigh honored.

He has been responsible for the installation of the following notable machinery: U. S. Battleship Wyoming, a leader in engineering competition, direct turbine drive; S. S. Great Northern and Northern Pacific, turbine reduction gear drive; S. S. Siboney and Orizaba, 46 turbine-reduction gear drive destroyers, Scout Cruisers Richmond, Concord, Trenton, Marblehead, Memphis and Mololo, (Matson Navigation Co.). He has contributed numerous papers on machine design and naval matters, including the "Application of Steam Turbine to Marine Propulsion," at the International Engineering Congress, 1915.

Mr. Metten is a member of the Society of Naval Engineers, the American Society of Naval Architects and Marine Engineers, The American Society of Mechanical Engineers and the American Association for the Advancement of Science.

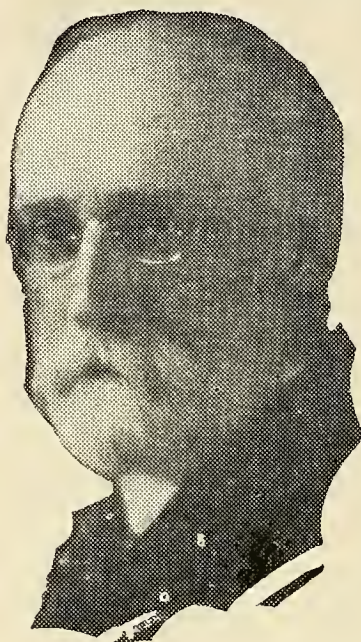
He is a distinguished engineer, a noted author and a man whose achievements are recognized and honored.

American Alumni Council to Study Possibilities of Adult Education

Miss Florence Snow, Alumnae Secretary at Smith College, President of the American Alumni Council, has announced that the Aims and Policies Committee of the Council will join with a Committee of the American Association for Adult Education in a study of the possibilities of continuing education after graduation. The first combined meeting of the committees will be held early next October.

The members of the Aims and Policies Committee are: Levering Tyson, of Columbia, Chairman; Frederick Alis, of Amherst; Miss Harriet Sawyer, of Vassar; J. L. Morrill, of Ohio State, and Wilfred Shaw, of Michigan. The members of the committee representing the American Association for Adult Education are President Little, of Michigan; President Coffman, of Minnesota; President Neilson, of Smith; President Jessup, of Iowa; Director Leonard, of Teachers College, Columbia, and a representative of a committee from the University of North Carolina which has been making a study of this same question for the past year.

A. N. CLEAVER, A LEHIGH TRUSTEE FOR 20 YEARS, DIES ON JUNE 30



Albert Newton Cleaver, a trustee of Lehigh for the past twenty years, died on June 30, at his home in Bethlehem in his 81st year due to general infirmities resulting from advancing years. Mr. Cleaver was regarded by the citizens of Bethlehem as one of the city's "grand old men" due to his active interest and participation in many civic and philanthropic activities. He had been a corporate member of our Board of Trustees since 1908 and had always displayed a keen interest in Lehigh affairs.

Mr. Cleaver was born on February 25, 1848, in Norwich, Vermont, a son of John and Elizabeth (Newton) Cleaver. He lived but one year in that state, as his parents moved to Mauch Chunk a year after his birth. He came to Bethlehem in 1869 after attending schools in Philadelphia, Englewood, N. J., and after residing in New York for a short time.

He had participated in several lines of business, being particularly active in the coal mining and steel industries. The principal positions which he held were comptroller and subsequently treasurer of the Bethlehem Steel Company for a few years; president of the Jeunesville (Pa.) Iron Works for five years; president of the Guerber Engineering Company (now the Bethlehem Fabricators) for several years; president of the W. C. Mason and Company, wholesale and retail coal dealers, for the past twenty years; and president of the Sayre Mining and Manufacturing Company, of Birmingham, Ala.

In addition to these positions he was also vice-president and a director of the Lehigh Valley National Bank and held directorates in the E. P. Wilbur Trust Company and the Bethlehem Fabricators. In spite of these many inter-

ests he found time to devote to the Church of the Nativity, here in Bethlehem, having been a vestryman for nearly half a century and senior warden from 1907 to 1919. He was also a trustee of St. Luke's Hospital.

Prof. William Esty Dies Suddenly

As the BULLETIN goes to press, word is received of the sudden death of Prof. William Esty, head of the Department of Electrical Engineering since 1903. Prof. Esty was stricken while on a motor trip in Pocono Lake Preserve with his family on July 6, having stepped out of the car and started to walk to a nearby garage. Funeral services are to be held in Amherst, Mass., July 9.

Lehigh Verdun Memorial Fund Completed—\$1,750.55 Raised

This fund has been satisfactorily carried through and the total contributions, \$1,750.55, have been handed over to the American Verdun Committee without deduction for any cost incurred in its collection, the expenses being paid by a special contribution given for that purpose, so that the entire fund subscribed and paid goes to France.

The accounts have been audited by Melvin Schissler, the Bookkeeper of Lehigh University, a Certified Public Accountant.

All the records including the roll of the names, and amounts given, of contributors, the bank deposit book with the Girard Trust Company, who acted as custodian of the fund, and the letters which accompanied contributions, are deposited in the archives of the Alumni Association.

Lehigh Soph. Wins Intercollegiate Tennis Title of U. S.

Just as this issue was on the press we received the good news that Julius Seligson, Lehigh's sophomore tennis ace, had won the Intercollegiate tennis title of the United States. This places Lehigh at the pinnacle of another branch of sport. A complete story of Seligson's rise to fame will appear in our next issue.

Lehigh Frosh Wins A. C. S. Prize For Best Essay in Chemistry

A prize of five hundred dollars (\$500) has been awarded by the American Chemical Society to Dudley L. Harley, '31, of Martinsburg, W. Va., for his essay on "The Relation of Chemistry to National Defense," which was considered to be the best essay on this topic by the examining committee composed of members of the National Research Council.

Lehigh's Best Advertisement is Her Alumni

Their Collective Achievements are Countless in Number and Variety

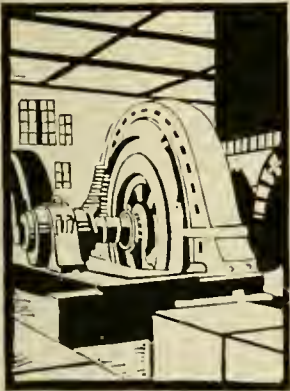


EVERYWHERE in the modern industrial world there are outstanding evidences of the ingenuity, the resourcefulness, the energy and the executive ability of Lehigh Alumni. Whether it be in mining, manufacturing, commerce, design and construction, scientific research, dissemination of knowledge, writing and journalism, or the legal profession, we find Lehigh Alumni holding positions of leadership.

A FEW OF THE ACHIEVEMENTS

Structures and Machines—

The Grand Central Terminal, the Singer Building, the locks of the Panama Canal, the Metropolitan Tower, Bethlehem's Hill-to-Hill Bridge, The Packard Motor Car, Veeder counting machines. Lehigh men designed or played an equally prominent part in the creation of all of these.



Great Concerns Headed by Lehigh Men—

McClintic-Marshall Co., Dravo Co., Bethlehem Steel Corp., Jones & Laughlin Steel Co., John Deere Co., Bucyrus Co., Missouri-Pacific Railroad, Lehigh Coal & Navigation Co., Lehigh & New England Railroad, Packard Motor Car Co., Oakland Motor Car Co., Lehigh Valley Coal Co., National Tube Co., Pittsburgh Steel Co., American Abrasive Metals Co., Fort Pitt Bridge Works.



FOR sixty years, Lehigh has furnished the basic training for her sons who have risen to the highest rank in their chosen fields, men who have contributed substantially to the progress of the world. She is constantly striving to instill in the present generation the same elements of success which have proved so helpful to many of her sons.

A pamphlet entitled "Monuments" giving a more complete list of the outstanding achievements and positions of Lehigh Alumni is available upon application at the Alumni Office.



PASS YOUR "BULLETIN" ON TO SOME PROSPECTIVE LEHIGH MAN

NORTHERN JERSEY CLUB HOLDS FIRST "CRUISE"

With a tie score of one to one in a baseball game between the married and single men, with two out in the ninth, Bernie Bernstein, '96, the Philadelphia Club's revered secretary, but serving as an umpire at this time, was obliged to call the game to a halt because of a sudden downpour. As Bernie put it, as long as the game lasted, the sides were divided between married and single men but when the game broke up they all became Mormons.

This baseball game was one of the high-lights of the first annual "cruise" of the "Good Schooner Lehigh" or in plain English, the first outing of the Northern Jersey Club held at the spacious country estate of J. H. (Hungry) Schmidt, '26, at Millington, Morris County, N. J. About forty members of the club as well as a few well-known representatives of other clubs were on hand for the festivities and activities, for there was an abundance of both.

Bernie was one of the representatives of another club and not only served as umpire (for the married men) but also acted as a relief pitcher for the same side. Herbert Bingham, '10, one of the active men of the Northeast Pennsylvania Club, was another visitor.

At the conclusion of the baseball game which was as hectic a struggle as can be seen at your favorite big league park, a swim was decided upon as most appropriate since it was raining anyhow. But by the time bathing suits were distributed, the rain had disappeared altogether. Bernie refused to go in swimming even though it was Saturday. He claimed he had taken his bath the day before and could not alter his schedule. But almost everybody else went in including Jim Yeager who caused the water in the pool to rise appreciably every time he plunged. In fact Jim looked very neat and trim in his bathing suit in spite of the fact that it was a trifle large.

A very considerable part of the afternoon and evening was spent at lunch and supper, both of which were provided by Schmidt's family in more than generous quantities. With a repast like they served no one was in a hurry to leave the table, and that requisite for all genuine Lehigh parties, beer, was to be had in generous quantities.

Even though there weren't quite as many there as Dave Green, '22, chairman of the committee in charge, had hoped for, those who were there are already thinking about the "second cruise" next year. To make sure that everybody would find the place, the committee posted "Lehigh Cruise" signs all the way from Summit right up to the entrance of Schmidt's place.

Lehigh and Lafayette Men Meet on the West Coast

The Lehigh Club of Northern California is now an established and howling success—with no small credit to "Mac" McPherson, '23, and "Billy" Duncan, '08.

On the evening of May 16, the Pacific Union Club of San Francisco, was the scene of one of the finest banquets that any Lehigh Club could ever hope to stage. As the guests of "Billy" Duncan, '08, twenty-three Lehigh and seven Lafayette Men partook of a banquet that will not be soon forgotten. The highest enthusiasm and spirit prevailed from the start to finish—every man present participating in the round-table talk. R. H. Tucker, '79, President of the Lehigh Club, presided over and opened the meeting.

At the suggestion of Billy Duncan, '08, who was next heard from, the Lafayette men organized, electing J. G. Watson, '84, President, and O. L. May, '15, Secretary.

A resolution was then unanimously passed commending the fine work of Okey as Alumni Secretary, and expressing regret at his loss. "Buck" Buchanan is assured of spirited support in his new work from all Lehigh men north of the Tehachapi.

W. A. Barnes, Lafayette, '12, who has been collecting good Lehigh money every Fall for the past five years from

Billy Duncan, extended an invitation to the Lehigh and Lafayette Clubs to attend a big game celebration at his country place at Woodside. This meeting will probably be held the Wednesday evening preceeding the Lehigh-Lafayette game.

Adam H. Hitchner, '23, was, before he realized it, very successfully railroaded into office as Secretary, succeeding "Mac" McPherson, Jr., '23, who is now residing in Los Angeles.

As a genial host and generous contributor to the success of the Lehigh Club of Northern California, "Billy" Duncan, '08, was given a rising vote of thanks.

The Lehigh men present were: R. H. Tucker, '79, W. C. Duncan, '08, F. B. Smith, '97, Geo. Baily, '04, Mason D. Pratt, '87, A. S. Garrison, '09, E. S. Cunningham, '96, J. E. Stott, '97, W. G. Hare, '98, T. B. Lyman, '79, G. H. Ayres, '87, E. J. Haug, '10, J. W. Burrows, '98, S. W. Ford, '13, H. R. Cox, '13, E. C. Gott, '20, R. E. Brown, '20, J. B. Jacob, '18, H. C. Forney, '23, A. H. Hitchner, '23, S. P. Senior, Jr., '25, R. C. Moore, '27.

The Lafayette men present were: J. G. Watson, '84, W. E. Coffman, '95, W. A. Barnes, '12, E. A. Robertson, '07, Capt. E. L. Barr, '18, D. K. Maxwell, '16, O. L. May, '15.



A group of Lehigh fathers and Lehigh sons. Left to right, on back row—J. H. Chickering, '01; G. S. Messinger, '03; C. R. Denise, '98; A. S. Gilmore, '03; the missing father is P. B. Straub, '97—the respective sons are on the lower row.

REUNION BANQUETS

(Continued from page 23)

ler, W. Briggs, E. E. Brosius, F. W. Dalrymple, A. E. Forstall, J. D. Hoffman, G. P. Hood, J. W. Leithead, E. F. Miller, W. F. Moore, Geo. Patterson, J. W. Reno and W. T. Wilson.

40-Year Reunion of 1888

When '88 gets together for a reunion you can be sure that the conversation and reminiscences will run far into the evening. The 40-year reunion banquet was no exception to the usual rule. During a pleasant dinner at the Bethlehem Club this group of old friends brought themselves up to date as to the water that has flowed over the dam since last they assembled. Then each man was called upon to give a formal account of his activities and to relieve himself of any observations that seemed pertinent.

Among those who enjoyed this convivial evening were: Bates, Brodhead, Burkhardt, Byers, Clark, Davis, Gaston, Gates, Hart, Hartman, Lewis, Marshall, McClintic, Miller, Miner, Morrow, Mott, Neiman, Parker, Perry, Pile, Phillips, Wilkins and Wilson.

35-Year Reunion of 1893

At the 35-year reunion of the Class of '93 those present were: N. C. Banks, Boyd, Cressman, Dech, Gadd, Gee, Harris, Heck, Hutchinson, Knox, G. H. Maurice, Osborne, Rights, Sawtelle, Stinemetz, Taylor and Throckmorton; and P. H. W. Smith, '92, joined as a guest at the dinner.

An outstanding feature was the flowing eloquence of Mont. Osborne, who was chosen to preside at the dinner and for the next five-year period. With appropriate quip or reminiscence he touched some salient point in the personality of each member of the party.

The feeling was strongly expressed that the Class should make efforts to know more about one another, as to past careers and present doings; and that everyone should strive to bring about a big turnout at the forty-year reunion in 1933. Address of the Class Secretary, Heck, is 35 College Ave., New Brunswick, N. J.

32nd Annual Reunion of 1896

The 32nd annual reunion of the class was held at the class headquarters, Hotel Bethlehem, starting Thursday, June 7th, and ending Monday, June 11th. The following were in attendance at the combined class banquet and dinner of the "Back Every Year Club" on Saturday evening, June 9th: R. E. Laramy, J. G. Petrikin, M. W. Poole, W. C. Diekerman, W. S. Jackson, J. L. Gross, B. Mohun, W. S. Ayars, T. J. Gannan, C. S. MacCalla, S. M. Dessauer, M. Bernstein, J. Geo. Lehman, H. W. Baldwin, H. N. Herr, all '96 men; also Castleman, '95, Wilson, '95, Pennington, '97, Hannum, '97, Serrell, '97, Straub, '97, Mount,

BETHLEHEM FABRICATORS

INCORPORATED



Pennsylvania Power & Light Bldg.,
Ninth and Hamilton Sts.,
Allentown, Pa.

R. P. Hutchinson, '04
J. H. Traeger, '03

OFFICE AND WORKS
BETHLEHEM, PA.

STRUCTURAL STEEL
FABRICATORS
AND ERECTORS

AGENTS

ALBANY, N. Y.
ALTOONA, PA.
BALTIMORE, MD.
BUFFALO, N. Y.
CLEVELAND, O.
DALLAS, TEXAS
HARTFORD, CONN.
HAZLETON, PA.
NEW YORK, N. Y.
PHILADELPHIA, PA.
SCRANTON, PA.
WASHINGTON, D. C.

G. M. Overfield, '14
A. L. Herman, '22

- POST AND McCORD -

- INCORPORATED -

- STRUCTURES -

- ONE HUNDRED AND ONE

- PARK AVENUE -

- N. Y. -**SPECIALISTS****IN****Design and Construction****AUBREY WEYMOUTH, '94****Chief Engineer**

THE R. G. JOHNSON COMPANY

CONTRACTORS AND ENGINEERS

SHAFTS, SLOPES
MINING CONSTRUCTION

Pittsburgh, Pa.

R. G. JOHNSON, '04

C. H. DORSEY, '08

CHARLES McGONIGLE, '01

OTHO POOLE

POOLE & McGONIGLE
ENGINEERS AND MANUFACTURERS
STRUCTURAL STEEL FOR BRIDGES, BUILDINGS, ETC.

PORTLAND . . . OREGON

POOLE-DEAN COMPANY

Incorporated 1911

STEEL CONTRACTORS
ERECTORS OF BRIDGES AND BUILDINGS

PORTLAND . . . OREGON

OTHO POOLE

CHARLES McGONIGLE, '01

THE PENSION PROBLEM

Many manufacturers have adopted a Pension Plan without sufficient thought and information. We will be glad to show you how to install and organize a self insurance pension plan that produces the best results at the lowest cost.



W. M. GOODWIN, Inc.

INSURANCE SURETY BONDS

Wilbur Trust Co. Bldg.
Bethlehem, Pa.

Dime Savings' Trust Co. Bldg.
Allentown

Franklin Trust Co. Bldg.
Philadelphia
E. B. Quirk, '13, Rep.

80 William Street
New York City

NEW YORK SEWAGE DISPOSAL COMPANY

5621 GRAND CENTRAL TERMINAL, NEW YORK
Engineers and Contractors

GEO. L. ROBINSON, '00, Pres.
BEN. E. COLE, '13, Vice-Pres.

SAMUEL T. MITMAN, '19, Engineer
H. S. HUTCHINSON, '18, Engineer
W. T. DOBSON, '10, Supt. of Const.

'97, Reynolds, '97, Enzian, '01, Wilson, '01, Jackson, '26, and Laramy, '26.

During the course of the evening many of the other classes holding reunions dropped in for a friendly call. Field Marshall Throckmorton, of the Class of 1893, back for his 35th reunion, gave a stirring address which was greatly enjoyed and appreciated. Okeson, '95, the retiring Secretary of the Alumni Association, was also present and assisted, at a late hour, in the closing ceremonies.

On Friday, by special arrangement, the class visited and inspected the mammoth Trexler orchards and buffalo farm, north of Allentown.

It may here be recorded that this class is one of the very few at Lehigh to hold a reunion each year. Several years ago, they organized what is known as the "Back Every Year Club" and secured permanent headquarters at the Hotel Bethlehem, where they furnished a special room (The '96 Alcove Room) for use at Commencement time. All classes having no regular reunion are always welcome at the sessions of the club.

S. M. DESSAUER, Secretary.

30-Year Reunion of 1898

The reunion banquet of the Class of '98 was certainly replete with features of every variety from some interesting statistics of the class to an informal parade at the conclusion of the evening. About thirty members of the class who were back for the reunion assembled at the Hotel Bethlehem for the banquet on Saturday evening.

After the dinner had been served the class roll was called and information was gleaned concerning the fortunes of the members present and the whereabouts of some of the absentees. An interesting set of statistics was then read by Percy Reed, who is head of the civil engineering department of the University of Florida. These were compiled from questionnaires answered by about fifty members of the class and showed that an average of ten pounds had been added to the waistlines. Of the number who returned questionnaires there were but seven bachelors while the others boasted of forty-nine daughters and two less sons, many of whom are Lehigh Alumni of the future.

After this came an election of officers who will serve for the next five years as follows: F. H. (Mike) Gunsolus, president; L. S. (Jack) Horner, vice-president; Victor Records, secretary and historian, and H. C. Paddock, treasurer.

Before the evening was brought to a close, the class decided that it would be a good thing to visit the other classes who were gathered at various places around the hotel. So with Mike Gunsolus leading the procession and with everybody singing Lehigh songs, "Hail, hail—" and other appropriate tunes, the class made the rounds visiting '93, '96, '13, and '83.

The following members were present for dinner: Benny Riegel, George Davies, Jack Horner, Billy Dehm, Herby Daggett, Vic Records, Sheep Shepp, Jack Gass, Blonde Nagle, Charley Denise, Percy Reed, Billy Wood, Mike Gunsolus, Dutch Leidy, Cy Roper, Doc. Wooden, Dude Liedy, Paddy Paddock, Tommy Wood, Jack Eckfeldt, Herby Hess, Billy Gummere, Bully Kneas, Davey Childs, Schweek Schweek, Colonel Waring, Peck Gannon, Looky Luckenback, Ches Starkey, who was with us at the Alumni Dinner the previous evening, was unable to attend this dinner.

25-Year Reunion of 1903

The '03 banquet at the Bethlehem Club started off like any ordinary class banquet but thanks to the ingenuity and spontaneity of Jack Fuller an innovation was introduced which will make it long remembered by the 50 men who were fortunate enough to be present. Jack proposed a truth party and was himself chosen questioner with assurance from each man present that he would answer truthfully any question asked him. One by one the victims were quizzed by the quick-witted attorney for the prosecution and the escapades of college years as well as the high spots of later careers were extracted by Fuller's arduous questioning. Every answer, no matter how seriously given, turned into a laugh when supplemented by Jack's comments. '03 was playing at truth hours after the other reunion banquets had dispersed. Among those present were: Andrews, Beck, Becker, Bray, Cassidy, Cort, Cunningham, Dallas, Degner, Diefenderfer, Eisenhart, Felix, Frain, Frick, Fuller, Gilmore, Girdler, Glancy, Goodwin, Graham, Hertzler, Hunt, Jordan, Lattig, Messinger, Miller, Morgan, Myers, Skillman, Stull, Tunstall, VanSickle, Walters, Warr, Wolcott and Young.

20-Year Reunion of 1908

The 1908 Class Reunion heralded and broadcast as a noisy and loud affair turned out to be very successful with a total absence of the noise as expected by the Committee. Thirty-eight men returned, which is an increase of twenty per cent over those



'08 lining up for the Parade

Materials Handling Equipment



MODERN AND EFFICIENT EQUIPMENT FOR EVERY MATERIALS HANDLING PROBLEM

Broad Experience in the Design of Conveying and Elevating Systems, Screening Plants, Storage and Reclaiming Systems

Send for Catalogue No. 68

ROBINS CONVEYING BELT COMPANY

—With the Company—

C. KEMBLE BALDWIN, '95
Vice-President

E. ROBINS MORGAN, '03
New York Office

15 PARK ROW, NEW YORK CITY

Boston

Philadelphia

Pittsburgh

Chicago

Los Angeles

Bethlehem Foundry & Machine Company

GENERAL FOUNDERS

and

MACHINISTS

BETHLEHEM, PENNA.

W. A. WILBUR, Hon. '20
Chairman of the Board

J. GEORGE LEHMAN, '96
President

ROBERT E. WILBUR, '04
1st Vice-President

I. E. KRAUSE,
Sec. and Treasurer

FLECK BROS. Co.

Manufacturers and Dealers

PLUMBING and HEATING SUPPLIES

For Every Type of Home and Building



Growing Great
Since '88

GENERAL OFFICES AND DISPLAY ROOMS

50 N. FIFTH STREET
5106-5112 GERMANTOWN AVENUE
1645 N. AMERICAN STREET
WESTMORELAND AND
AGATE STREETS

PHILADELPHIA, PA.

JOHN G. FLECK, '90
Vice-Pres. and Gen. Mgr.

G. B. LA PISH, '19
Pur. Agt. Reading Br.

WEIL-McLAIN Boilers
STANDARD Enamelware
REPUBLIC Brass Work
PAWNEE Pipeless Furnaces
MOHICAN Closet Outfits

Septic Tanks, Wrought Pipe, Valves, Screwed Fittings,
Radiators, Heating Appliances, Water Supply Systems,
Factory Equipment

BRANCHES

Allentown, Pa.
Atlantic City, N. J.
Baltimore, Md.
Camden, N. J.
Easton, Pa.
Lancaster, Pa.
Lansdale, Pa.
Lansdowne, Pa.
Macungie, Pa.
Norfolk, Va.
Pottstown, Pa.
Pottsville, Pa.
Reading, Pa.
Stroudsburg, Pa.
Warren, Pa.
Williamsport, Pa.
Williamstown, N. J.

present at the 15-year reunion.

The banquet scheduled for seven o'clock on Saturday evening at the Hotel Bethlehem was delayed while a general round-up of the members was made in the various rooms of the hotel. The final fifty percent of those missing was located in the room of Arthur Oram Fulton. Our own piano expert, Arthur Lakey, kept the banquet livened up with his scintillating tunes and showed that he was more adept than ever at the piano. The only speech of the evening was made by the President, C. C. Thomas, who expressed his happiness in being able to get away from the wild sticks of West Virginia and expressed the hope that everyone would be back for the 25th reunion.

The reunion committee reported a small surplus after all expenses had been paid and the Class voted to turn this surplus together with the accrued Class Fund in the Alumni Office over to the Alumni Endowment Fund.

The following is a list of the men who returned for the reunion: Anderson, Bachman, Baer, Bayless, Bechtel, Bell, Bishop, Brothers, Burlingame, Carson, Clewell, Daubenspeck, Dorsey, Donegan, Fair, Fulton, Hafner, James, Kraemer, Laubenstein, Komara, Lakey, McCann, Miller, Morsack, Perley, Priestly, Raine, Ritter, Sanderson, Sayre, Schafer, Speath, Stites, Thomas, Troutman, Warnke and Wilson.

15-Year Reunion of 1913

The 15-year reunion of the Class of 1913 was a very successful affair with thirty-six men in attendance as follows: Cole, Carpenter, Watson, Mercur, Edwards, Rooney, Long, Ward, Dynan, Mart, Ackerly, Perkins, Kutzleb, Seguire, Weaver, Savastio, Rafters, Wheeler, Fellencer, Matthews, Beers, McLaughlin, Kocher, Stokes, Culliney, Wragg, Motter, Bayard, Finn, Rems, Shafer, Coleman, Davies, Wallace, Lamb and W. K. Smith.

At 7 o'clock the gang convened at the Hotel Bethlehem for the Class Banquet. This was really the best part of the reunion. The menu was splendid—the speeches were good, and no detail was overlooked to insure a successful party. "Sunnies" Edwards acted as toastmaster and introduced each man in turn for a speech. "Skipper" Eckfeldt was the guest of honor and delivered a characteristic address reminiscent of the old days. "Okey" came in toward the end and had a few words to say about the progress being made at the University and the necessity for maintaining interest in Lehigh and not letting old associations and friendships go by default for lack of a little effort and sacrifice.

The Reunion Committee appreciates the response which it received from the class in the way of replies to its various notices and communications, and also for the many additional personal messages from men who were anxious to be on hand but who for various reasons, could not attend.

Blast Furnace Slag

CRUSHED and SCREENED

— SIZES FOR ALL PURPOSES —

Also Granulated Slag and Ashes

PLANTS

DUQUESNE, PA.	POTTSTOWN, PA.	WHARTON, N. J.
DUNBAR, PA.	COATESVILLE, PA.	TEMPLE, PA.
CATASAUQUA, PA.	BIRDSBORO, PA.	EASTON, PA.

DUQUESNE SLAG PRODUCTS CO.

Main Office	District Sales Office	Dist. Sales Office
Diamond Bank Bldg.	425 Commercial Trust Bldg.	34 W. Blackwell St.
PITTSBURGH, PA.	PHILADELPHIA, PA.	DOVER, N. J.

10-Year Party of 1918

The 10-year party of 1918 was a huge success due largely to the spontaneous efforts of Speakman who conceived the brilliant idea of the class stunt, which was a living picture of the "Vulgar Boatsman." He and Mayers were appointed a committee of two to find a boat, and they departed on this mission at 3:30 a.m. Saturday morning. They showed up the next afternoon with a tiny schooner attached to an inch-and-a-half hawser which the boatmen sprung on an appreciative audience during the parade.

The class banquet held at the Bethlehem Club was as dignified and inspiring as might be expected of a class thirty years out of college. Fifty men enjoyed the especially fine meal while bringing each other up to date on their business progress, families, and so forth. Austy Tate was the guest of the class at dinner and obliged by telling something of his plans and aspirations for the coming football season. Special greetings were sent to the following members of the class who were unable to be present: Whitey Lewis, Jack Early, Bill Tizard, Jake, Ty Halsted, Birdie Morrissey, Charlie Blasius, Harold Boyd, General Sherman, Red Covell, George Weher, Fred Bickley, Slat Downey, John McConnell and Bill Walther. The following members of the class were present: Alden, Allan, Ambler, Bachert, Barthold, Buchanan, Campbell, Clymer, Concilio, Constine, Creer, Doushness, Ely, Fritchman, Gaston, Gilroy, Gross, Hogg, Hukill, Hutchinson, Klotz, Latimer, Lawall, Lind, McGalliard, Maccallum, Maginnis, Mayers, Mitman, Mizel, Moll, Mueller, Penman, Phillips, Saxman, Sexton, Speakman, Staats, Stettler, Thomas, Whitney and Wolcott.

5-Year Reunion of 1923

The largest reunion ever held by a Lehigh class was the way Okey described the fifth year gathering of the Class of '23 when he came into the banquet at the Hotel Brighton, just as the festivities were at their height. There were eighty-six men at the banquet not to mention a few others who were also in town but who were unable to navigate to the Brighton from one or more of the well-known spots on the South Side.

The class did not need to import any talent to supply the entertainment because there was plenty right in the class. The first to be heard from was Al. Jolson's only rival, Johnny Opdyke, assisted by Jake Jagels, '22, at the piano. Fritz Lewis furnished several numbers on the program and his voice seemed to be as good as ever. Doc Underwood did his share on the saxophone. Eddie McGovern and his boys contributed their share toward the entertainment with a generous supply of music.

Pumping Machinery

Wilson-Snyder Manufacturing Co.

PITTSBURGH, PA.



H. D. WILSON, '01, President



E. T. MURPHY, '01
Vice-President

W. A. BORNEMANN, '17
Sales

H. B. GULICK, '21
Sales

S. P. EAGLETON, '26
Design

A. W. CANNEY, '27
Design

SALES OFFICES

New York	Philadelphia
Boston	Chicago
Cleveland	Kansas City
Los Angeles	Washington

Air Conditioning

Designs and installation of equipment to create and control automatically any desired conditions of Humidity, Temperature and Air Movement within buildings. Cooling and Dehumidification by Carrier Centrifugal Refrigeration.

Drying and Processing

Automatically controlled equipment for air drying, moistening and processing of manufactured and raw materials.

Specific Information on Request

Carrier Engineering Corporation

Offices and Laboratories
NEWARK, NEW JERSEY

J. S. ROBESON, '86
PENNINGTON, N. J.

Lignone

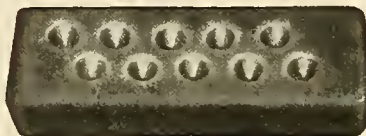
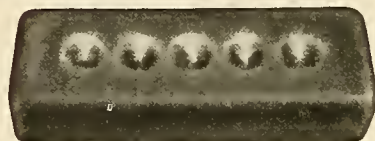
a smokeless odorless

Binder

for coal briquets

BRIQUET
ENGINEERING
MACHINES
BINDERS

CHILLED IRON WIRE DRAWING DIES



Grinding plates, sand blast nozzles, pug mill blades, liner plates, tube mill trumpets, rod and rolling mill guides, centrifugal pump liners, pipes for ash conveying systems, coal breaker troughs, etc. All made of "Mackite"; our hard, white, abrasion resisting iron, remarkable for its wearing capacity.

**McFarland Foundry
and Machine Co.**
TRENTON, N. J.

J. H. PENNINGTON, '97, Gen. Mgr.

Then "Pop" Larkin, an old friend of the class, came in and went the rounds, greeting everybody, amidst a continuous round of cheers, led by Cusick and other mechanicals.

No sooner had Larkin made the rounds than Okey made his appearance which caused another volley of cheers. Okey complimented the class on the large number we had back for the reunion and the spirit shown.

One of the important matters was decided at the banquet, and that was the election of class officers and an executive committee to serve for the next five years. The executive committee met on Saturday morning and nominated the following officers, who were unanimously elected at the banquet:

Art Cusick, president; Len Bray, vice-president; George McConnell, secretary, and Frank Leister, treasurer. Cusick was also chosen as class agent.

Two telegrams were sent in the course of the evening—one to Bosey who had been invited to the banquet as a guest of the class but who was out of town, the other to Johnny Lees, who had been president of the class during the junior and senior years and also for the past five years, and who is now in Chicago and consequently unable to be with us.

Included among those who were back were: Stan. Abel, Hank Ashbury, Harry Bieg, Steve Bessemer, Cliff. Bradley, Len. Bray, W. E. Buller, Al. Carlisle, Clint. Compher, Johnny Con-

GANNETT, SEELYE & FLEMING, Inc.

Engineering, Construction and Management
Reports and Appraisals



Prompt and Accurate Results made possible
through a large and well-trained organization

HARRISBURG, PA.

New York

New Orleans

Buenos Aires, S.A.

S. W. Fleming, '09

Established 1830

Incorporated 1902

Christiana Machine Company

CHRISTIANA, PA.

**ENGINEERS, FOUNDERS
AND MACHINISTS**

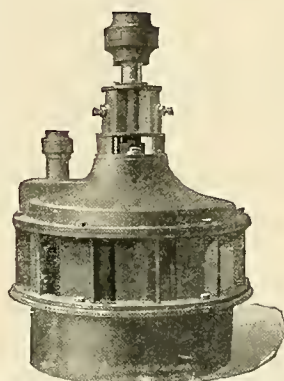
Manufacturers of

**Cut Tooth Gears, Cast Tooth Gears,
Mortise Gears, Pinions and Cogs**

C. M. C. Hydraulic Turbines

Special Machinery

Grey Iron and Semi-Steel Castings



C. M. C. Hydraulic Turbine

Louis B. Bond, '26, Supt. Donald G. Hornbaker, '26 Donald Werntz, '27

lin, Jim Conroy, Eddie Coxe, Art. Creighton, Art. Cusick, Bill Davis, E. J. Decker, Charlie Derrick, Frank DeMoyer, Geo. Desh, Johnny Erb, Sig. Ertner, Truman Eshbach, Sam Farace, Pop Farkas, Frank Ferguson, John Ferry, Doster Focht, Charlie Forstall, Tom. Ganey, Joe Groff, Erwin Handwerk, Phil. Hartung, Kewpie Hicks, Jim Kennedy, Geo. Koch, Charlie Knodel, Bill Kratz, Charlie Kressler, Irwin Kurtz, Dick Kutzleb, Frank Leister, Billy Lodge, Harry Mitman, Sam. Nevins, Cork O'Keefe, Johnny Olcott, Don. Quick, Reets Randall, Dusty Rhoads, Johnny Opdycke, Plug Richards, Eddie Rieman, Fred Roller, Rus. Rubba, Ray. Ruger, Ed. Sansom, Ollie Saunders, Everett Schaefer, Al. Schwarzbach, Lew. Shoemaker, Ed. Snyder, Stew. Stanier, Herb. Talmage, Jack Taylor, Tommy Thomas, Square-head Thompson, Doc. Underwood, E. Van Keuren, Pete Van Ness, Charles Voss.

1-Year Reunion of 1927

Originally scheduled to be held in the banquet room of Tocci's Restaurant, the first annual banquet of the Class of '27 convened in the basement, where with one foot on the rail some forty-five "baby grads" regaled themselves with "spirit frumenti" smacking of old Italy, while they reviewed events past and present, or what have you.

With Ned Martin at the helm of the arrangement committee, the banquet was scheduled to take the usual procedure of food, speech, music, etc. Unfortunately some stray member of the class stumbled up the steps in a besotted condition and started a gen-

American Abrasive Metals Co.

(Founded by Wm. H. Sayre, '86)

50 CHURCH ST.

NEW YORK CITY

FERALUN

[A patented combination of iron and abrasive grit]

To Prevent Slipping Accidents

Its peculiar properties make it the longest wearing, most efficient anti-slip material obtainable

— For —

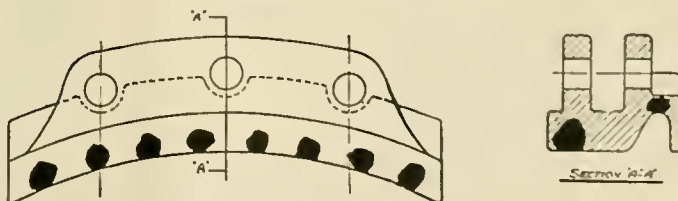
Floor Plates	Elevator Door Thresholds
Stair Treads and Landings	Coal Hole Covers
Door Saddles	Cover Plates, etc.
Car Steps and Platforms	

For General Industrial Uses

Its extreme durability, when subjected to severe abrasive action makes it most useful and economical in a wide variety of fields

Wearing Plates	Rabble Blades
Pug Mill Paddles	Liner Plates, etc.

Brake Shoes for Mine Motors
(Grinding and braking combined)



Side view and section of "FERALUN" BRAKE-SHOE showing where the Abrasive is placed

For Special Work—where Bronze or Aluminum is required

"BRONZALUN"	"ALUMALUN"
(The "Grit" Cast in Bronze)	(The "Grit" Cast in Aluminum)

Sole Representatives for United States and Canada for
"CARBORUNDUM ANTI-SLIP TILE"

H. S. EDMONDSON, '06, President
G. P. HARTHOLOMEW, '06, Vice-Pres.
WM. H. SAYRE, '21, Vice-Pres.
AUSTIN D. SAYRE, '24, Vice-Pres.
GEORGE C. HUTCHINSON, '04
District Representative
Farmers Bank Bldg., Pittsburgh, Pa.

JOHN HANCOCK SERIES

PENSIONS

Did you ever think about
Pensioning Yourself?

At a surprisingly low cost you can use the resources of life insurance to provide yourself with an adequate pension. It is a form of insurance known as "Annuities," an entirely different thing from the payment of money to your relatives at your death.

You would be interested to read of the experience of others. We shall be pleased to send you our booklet, "Life Income Through Annuities," which tells their experiences and explains the plan. Address

INQUIRY BUREAU

John Hancock
LIFE INSURANCE COMPANY
of Boston, Massachusetts

197 CLARENDON ST., BOSTON, MASS.

A.G.

SIXTY-FIFTH YEAR OF BUSINESS

"THE HOUSE OF QUALITY"
PHOTO ENGRAVINGS

LINE PLATES
 BEN DAY



HALF TONE
 COLOR WORK

SANDERS-REINHARDT CO.

711 LINDEN ST. ALLENTOWN, PA.

PHONE 28593

eral rush toward the cellar. Thereafter the meeting took on a real Lehigh air.

A few remarks dragged from each one brought out the information relative to their present loafing grounds.

Okey dropped in for a few minutes and talked about—now just what did he talk about?

The hot air that proceeded from 42 mouths soon heated the room to the temperature of a blast furnace and the few that had managed to dry off from the shower, soon found themselves drenched with perspiration. To add to the discomfiture the lights blew out, but by that time few were in a condition to see anything anyway, so the party merrily went on.

S. Herbert Bingham,
Wholesale Lumber.

Timber, Ties, Logs, Poles, Mine Props and Piling.
Dunmore, Pa.

ESTABLISHED 1857

INCORPORATED 1906

**T. B. WOOD'S SONS
 COMPANY**

CHAMBERSBURG, PA.

Power Transmission Machinery
 Flexible Couplings
 Belt Conveyors
 and the
 U. G. Automatic Belt Contactor
 for Short Center Belt Drives

CHAS. O. WOOD, '92 T. B. WOOD, '98 G. H. WOOD, '99

Wilson

**ROLLING STEEL
DOORS**



No opening too wide
or too narrow

WILSON ROLLING STEEL DOORS are adaptable to any size space—forming a rugged, protecting barrier against wind, theft and fire. Easily operated by hand, gearing or motor. Special interlocking construction strengthens them against roughest usage. Send for Catalogue No. 32

THE J. G. WILSON CORPORATION
 11 East 38th Street New York City

Offices in all principal cities
 J. F. Middledith, '99, Sec'y. and Treas.
 L. Bevan, '21.

WHITE & BRO., INC.

Smelters and Refiners

RICHMOND AND HEDLEY STS.

PHILADELPHIA

HARRY A. WHITE, '95

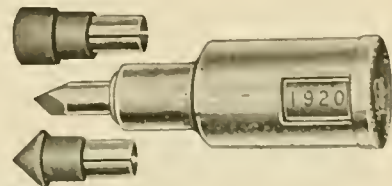
C. B. WHITE, '05

TACHOMETERS *Veeder* PRODUCTION AND SPEED COUNTERS



Products: CYCLOMETERS FOR BICYCLES AND MOTORCYCLES, TO RECORD DISTANCE TRAVELED; ODOMETERS FOR MOTOR TRUCKS, TO REGISTER MILEAGE; COUNTERS FOR RECORDING THE PRODUCTION OF MACHINES; SPEED COUNTERS FOR COUNTING REVOLUTIONS OF SHAFTS OR FLYWHEELS; TACHOMETERS FOR INDICATING IN REVOLUTIONS-PER-MINUTE THE SPEED OF MOTORS, PRIME MOVERS, GENERATORS OR ANY REVOLVING PART. ALSO FINE DIE CASTINGS REQUIRING ACCURACY AND UNIFORMITY OF SIZE.

Write for copy of the
Veeder Counter booklet



The No. 21 SPEED COUNTER shown above registers number of revolutions (per minute) of a motor, engine, dynamo, line shafting, machine spindle or any revolving part. The point is held against the end of the revolving shaft; the instrument pressed lightly when count is commenced; pressure released when the timing is over. Push-clutch starts or stops recording mechanism instantly, giving exact R. P. M. readings without use of stopwatch. Price \$3.50.

THE VEEDER MFG. COMPANY

20 Sargeant Street, Hartford, Conn.

C. H. VEEDER, '86
President

FORT PITT BRIDGE WORKS

OF PITTSBURGH, PA.

BRIDGES, BUILDINGS STRUCTURAL STEEL

General Office,
20th Floor, Oliver Building, Pittsburgh
New York Office, 15 Park Row
Chicago Office, Ashland Block
Cleveland Office, Bulkley Building
Purchasing Dept. and Works, Canonsburg

T. A. STRAUB, '90, President

H. R. BLICKLE, '93, Vice-President

SCHUYLER B. KNOX, '93, Manager N. Y. Office

E. K. ADAMS, '16, Contr. Engineer

P. B. STRAUB, '97, Secretary and Treasurer

A. SHELDON, '93, Asst. Chief Engineer

N. G. SMITH, '06, Engr. Contr. Dept.

Roebling

Blue Center Steel Wire Rope



Is especially manufactured for severe service. It is exceptionally tough and will withstand sudden stresses and the grinding and scraping of rough usage.

Made of a superior grade of steel produced in our own furnaces.

DURABLE, DEPENDABLE, ECONOMICAL

John A. Roebling's Sons Company Trenton, New Jersey

The Lehigh Coal and Navigation Company

437 CHESTNUT STREET
PHILADELPHIA, PA.

Miners of Old Company's Lehigh Coal Since 1820

SAMUEL D. WARRINER, '90, President

ANTHRACITE and BITUMINOUS COAL

Alan C. Dodson, '00
T. M. Dodson, '00
G. R. Radford, '84



C. S. Kenney, '10
H. B. Tinges, '12
E. L. Walters, '26

GENERAL OFFICES,

BETHLEHEM, PA.



ECONOMY BEGINS AT THE COAL PILE

Plants using coal cleaned by the PNEUMO-GRAVITY PROCESS, find that economy is effected from the start. This process eliminates entirely the old hand-picking operation, replacing it with a full mechanical operation which removes, with consistent uniformity, slate, bone and other impurities to a degree not heretofore practicable in commercial use. It uses no water—no excess freight charge results. The process handles anything from the finest slack up to three inch lump.

Try a car of PNEUMO-GRAVITY Cleaned Coal—and watch your cost curve drop.

PEALE, PEACOCK & KERR

Graybar Bldg.
New York

North American Bldg.
Philadelphia, Pa.

Operating Offices: St. Benedict, Pa., Cambria Co.

THE PHOENIX IRON CO.

Manufacturers of Open Hearth

STRUCTURAL STEEL SHAPES

Works:
PHOENIXVILLE, PA.

Main Office:
PHILADELPHIA, PA.

OFFICES:

22 S. 15th Street, Philadelphia

110 State St., Boston, Mass.

30 Church Street, New York City

City Savings Bank Bldg., Albany, N. Y.

Munsey Building, Washington, D. C.

THE PHOENIX BRIDGE CO.

Engineers and Builders of

BRIDGES AND OTHER STRUCTURES OF STEEL

Bridge Works, PHOENIXVILLE, PA.

Established 1790

Capacity, 60,000 Tons per Annum

W. R. HALL, '02, ASST. ENGR., BRIDGE DEPT.
W. H. ELLIS, '09, ASST. ENGR., ERECTION DEPT.
W. E. STURGES, '10, RES. ENGR., WASHINGTON OFFICE

PROFESSIONAL CARDS

New York City 15 Park Row
FORSTALL, ROBISON AND LUQUEER
Consulting Engineers
Public Utility Problems
Alfred E. Forstall, '83
Robert O. Luqueer

St. Louis, Mo. 211 South Seventh St.
ROBERT W. BARRELL, '87
President
St. Louis Sampling & Testing Works, Inc.
Chemists, Metallurgists and Mining Engineers
All kinds of chemical analyses, investigations
of chemical and metallurgical processes,
examinations of mining properties.
Over 35 years experience.

Philadelphia 112 N. Broad Street
J. W. LEDOUX, '87
CONSULTING ENGINEER
Water Works, Water Power, Reports,
Designs, Construction, Supervision,
Valuation, Arbitration, Rate
Schedules

New York City 30 Church St.
Cortlandt 0824
WM. WIRT MILLS, '87
Sales Agent
Lowe Bros., The Paintmakers
Paints Varnishes Steel Coatings

New York City 15 Park Row
CLARENCE W. HUDSON, '89
Consulting Engineer
Designs, Supervision, Estimates.
Reports on All Classes of Structures

ALEXANDER POTTER, '90
Consulting Engineer
Hydraulics, Sanitation, Concrete
Structures
50 Church St., Tel.: 5501 Cortlandt
New York City 8224 Cortlandt

WILLIAM RUSSELL DAVIS, '92
Consulting Engineer
BRIDGES
103 Washington Ave.,
Albany, N. Y. Tel.: Main 3835

Pittsburgh 1st National Bank Bldg.
GEORGE S. BATON & CO.
Consulting Engineers
Reports on Coal Properties
Geo S. Baton, '94

New York City 51 East 42nd St.
VISSCHER & BURLEY
Architects
T. C. Visscher, '99 J. L. Burley, '94

New York City 256 Broadway
AMOS H. CLAUDER, C.E., '04
Attorney and Counsellor at Law
Real Estate Law and General Practice

Boston 220 Devonshire St.
EDWARD C. BROWN COMPANY
Consulting Engineers
Design of
Power Plants, Industrial Plants
E. C. Brown, '04

BLAIR ACADEMY
A college preparatory school for 300
boys in the hills of northern
New Jersey
Charles H. Breed, Headmaster
For Catalog, address
Box 23 Blairstown, New Jersey

The "Skipper's Gang" is on the march!

EACH YEAR the Alumni Ranks of the "Skipper's Gang" advance to new achievements. Hundreds of these men are today directing the operations of leading mines.

Their success has been due to industrial and engineering training at Lehigh and in the field, progressive thinking, executive resourcefulness, a thorough understanding of modern methods and an appreciation of the economic necessity for modern, high quality mine equipment.

"Car Foundry" Mine Cars are the preference of leading coal mines throughout the country. Every mine selected by "Coal Age" as the "model mine" of the year is using "Car Foundry" Mine Car Equipment.

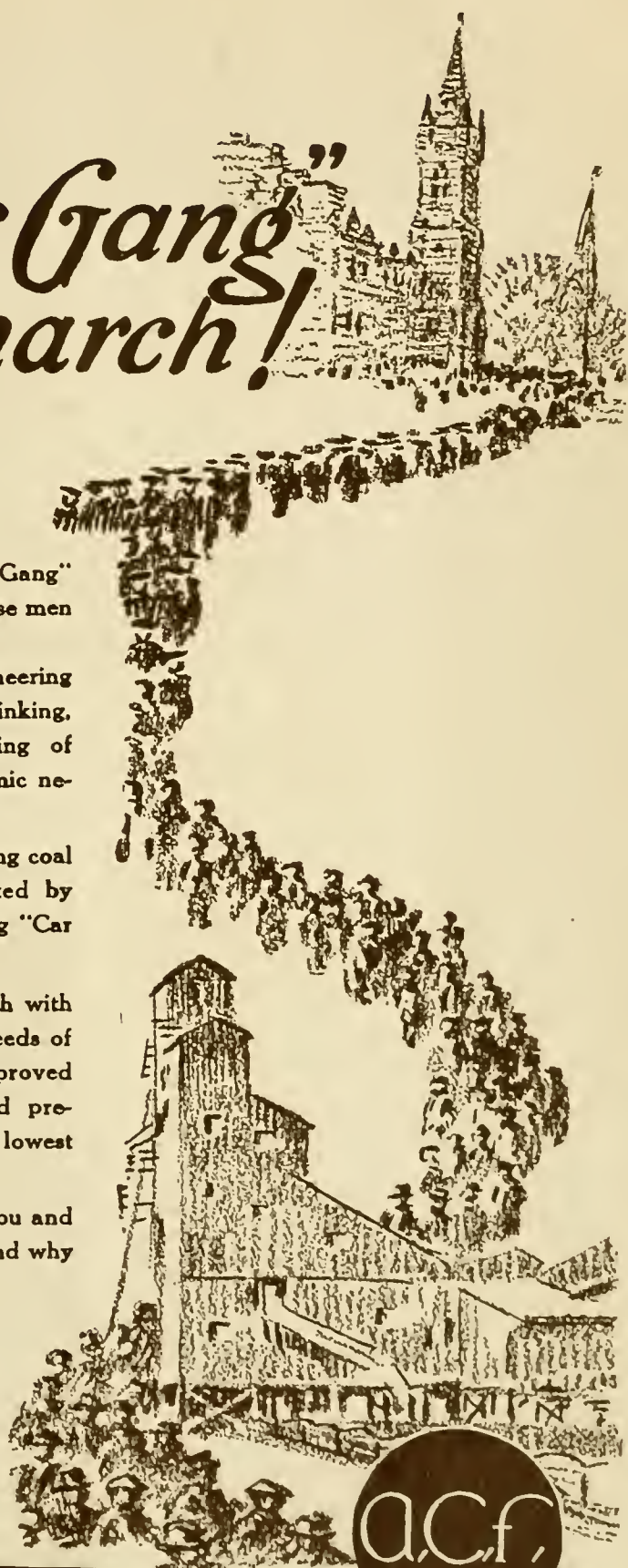
"Car Foundry" Engineers are in close personal touch with the industry, and build cars to keep pace with the needs of modern mining methods. High quality materials, improved processes of manufacture, detailed inspections and pre-service tests make certain maximum car value and lowest ultimate costs per ton handled.

You are cordially invited to visit the plant nearest you and see for yourself how "Car Foundry" cars are made and why they are preferred. Write for an appointment.

A "Car Foundry" Representative will be glad to call on you.

American Car and Foundry Company

New York St. Louis Chicago Pittsburgh
Berwick, Pa. Bloomsburg, Pa. Huntington, W. Va. Terra Haute, Ind.



"CAR FOUNDRY"

ELECTRIC RIVET HEATERS
BARS, IRON and STEEL
CAR IRONS

BOLTS, NUTS, RIVETS
IRON BODY GATE VALVES
CAR TRUCKS

CHILLED TREAD WHEELS
PINS AND LINKS
FLANGED PIPE



BETHLEHEM STEEL COMPANY

PLANTS AT

Bethlehem, Lebanon, Steelton, Johnstown, and
Coatesville, Pa., Sparrows Point, Md.
Elizabeth, N. J., Wilmington, Del.
Lackawanna, N. Y.

General Offices: BETHLEHEM, PA.

DISTRICT OFFICES:

New York, Boston, Philadelphia, Baltimore,
Atlanta, Washington, Pittsburgh, Cleveland, Buffalo,
Detroit, Cincinnati, Chicago, Seattle, Los Angeles
St. Louis, San Francisco, Portland

E. G. GRACE, '99	<i>President</i>
C. A. BUCK, '87	<i>Vice-President</i>
H. E. LEWIS	<i>Vice-President</i>
QUINCY BENT	<i>Vice-President</i>
G. H. BLAKELEY	<i>Vice-President</i>
E. S. KNISELY	<i>Vice-President</i>
G. W. STRUBLE	<i>Vice-President</i>
J. M. GROSS	<i>Vice-President</i>
R. E. McMATH	<i>Vice-President and Sec'y</i>
W. F. HARTMANN	<i>Treasurer</i>
F. A. SHICK	<i>Comptroller</i>